



CHANDLER & ASSOCIATES, INC.

1401 DENVER CLUB BUILDING • DENVER, COLORADO 80202 • 303 629-6756
OIL AND GAS EXPLORATION AND PRODUCTION

September 28, 1981

Edgar W. Guynn
U.S. Geological Survey
1745 W. 1700 S.
Suite 2000
Salt Lake City, UT 84104

RE: Preliminary Environmental Review
Moab Federal ¹⁶⁻⁷₂₅₃
SE SE Sec. 9-T2S-R20E
Grand County, Utah

Dear Ed,

Chandler & Associates, Inc. requests permission to commence the permitting process for the above referenced well.

We would like to stake and permit the well as soon as possible, so anything you can do to expedite the PER would be greatly appreciated.

Thank you for your consideration of this matter. Should you have any questions or comments please feel free to call.

Sincerely yours,

David M. Burnett

DMB/ms

Moab

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐

OTHER

SINGLE
ZONE ☐MULTIPLE
ZONE ☒

2. NAME OF OPERATOR

CHANDLER & ASSOCIATES, INC.

3. ADDRESS OF OPERATOR

1401 Denver Club Bldg., Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

388' FSL; 547' FEL (SE SE)

At proposed prod. zone

SAME

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

Approx. 30 miles north west of Moab, Utah (road miles)

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

388'

16. NO. OF ACRES IN LEASE

2,293.26

17. NO. OF ACRES ASSIGNED
TO THIS WELL

160

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

None

19. PROPOSED DEPTH

9500'

20. ROTARY OR CABLE TOOLS

Rotary- All

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

4996' Ground

22. APPROX. DATE WORK WILL START*

Dec. 10, 1981

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13-3/8"	48#	1,000'	775 sx
7-7/8"	5 1/2"	15#, 17#	9500'	400 sx

1. Drill to T.D. of 9500' (Mississippian)
2. Run 5 1/2" casing if commercial production is indicated.
3. If dry hole, Plug and Abandon as instructed by the U.S.G.S.
4. Well will be drilled with chemical gel system with mud up at approx. 4300', tested, and 5 1/2" casing to T.D.
5. Well control equipment will include double hydraulic system of 900 Series, a fillup line will be installed, equipment pressure tested before drilling out from under surface and equipment mechanically checked daily.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED Richard Veghte TITLE Petroleum Engineer DATE Nov. 5, 1981

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Moab District
P.O. Box 970
Moab, Utah 84532

IN REPLY REFER TO

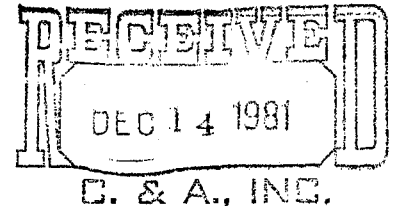
2800
U-49767
(U-060)

*North 100th
at 100th*

CERTIFIED--RETURN RECEIPT REQUESTED
Certification No. 993197

DEC 09 1981

DECISION
Right-of-Way Granted
Details of Grant



Serial Number: U-49767

Name of Holder: Chandler & Associates, Inc.
1401 Denver Club Building
Denver, Colorado 80202

Map: See Attached

Dimensions: Length 4.9 miles
Width: 20 feet travel surface (28 feet total disturbed area).

Legal Description: T. 25 S., R. 20 E., SLB&M
Sec. 15: $W\frac{1}{2}$
Sec. 21: $E\frac{1}{2}NE\frac{1}{4}$, $NE\frac{1}{4}SE\frac{1}{4}$
Sec. 22: $W\frac{1}{2}SW\frac{1}{4}$
Sec. 27: $E\frac{1}{2}NW\frac{1}{4}$, $N\frac{1}{2}SW\frac{1}{4}$
Sec. 28: $N\frac{1}{2}S\frac{1}{2}$
Sec. 29: $S\frac{1}{2}SE\frac{1}{4}$, $SE\frac{1}{4}SW\frac{1}{4}$

Date Filed: December 3, 1981

Permitted use: Construction upgrading, use maintenance and rehabilitation of a well access road.

Authority: Title V of the Federal Land Policy and Management Act and the Right-of-Way Regulations (43 CFR 2800).

Effective date: Effective the date of this decision.

Termination date: Thirty (30) years from the issuance of this grant.

Rental: None for ingress or egress to an oil or gas well.

Amount: N/A

When payable: N/A

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE
(Other instructions
reverse side)

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. USA U-24550	
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME -----	
2. NAME OF OPERATOR CHANDLER & ASSOCIATES, INC.		7. UNIT AGREEMENT NAME -----	
3. ADDRESS OF OPERATOR 1401 Denver Club Bldg., Denver, CO 80202		8. FARM OR LEASE NAME MOAB FEDERAL	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 388' FSL; 547' FEL (SE SE) At proposed prod. zone SAME		9. WELL NO. 16-9	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* Approx. 30 miles north west of Moab, Utah (road miles)		10. FIELD AND POOL, OR WILDCAT Wildcat	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 388'		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 9-25S-20E	
16. NO. OF ACRES IN LEASE 2,293.26		12. COUNTY OR PARISH 13. STATE Grand Utah	
17. NO. OF ACRES ASSIGNED TO THIS WELL 160		18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. None	
19. PROPOSED DEPTH 9500' <i>Mississippian</i>		20. ROTARY OR CABLE TOOLS Rotary- All	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 4996' Ground		22. APPROX. DATE WORK WILL START* Dec. 10, 1981	

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17½"	13-3/8"	48#	1,000'	775 sx
7-7/8"	5½"	15#, 17#	9500'	400 sx

1. Drill to T.D. of 9500' (*Mississippian*)
2. Run 5½" casing if commercial production is indicated.
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4. Well will be drilled with chemical gel system with mud up at approx. 4300', tested, and 5½" casing to T.D.
5. Well control equipment will include double hydraulic system of 900 Series, a fillup line will be installed, equipment pressure tested before drilling out from under surface and equipment mechanically checked daily.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED *James L. Rowland for Richard Veghte* TITLE Petroleum Engineer DATE Nov. 5, 1981
(This space for Federal or State office use)

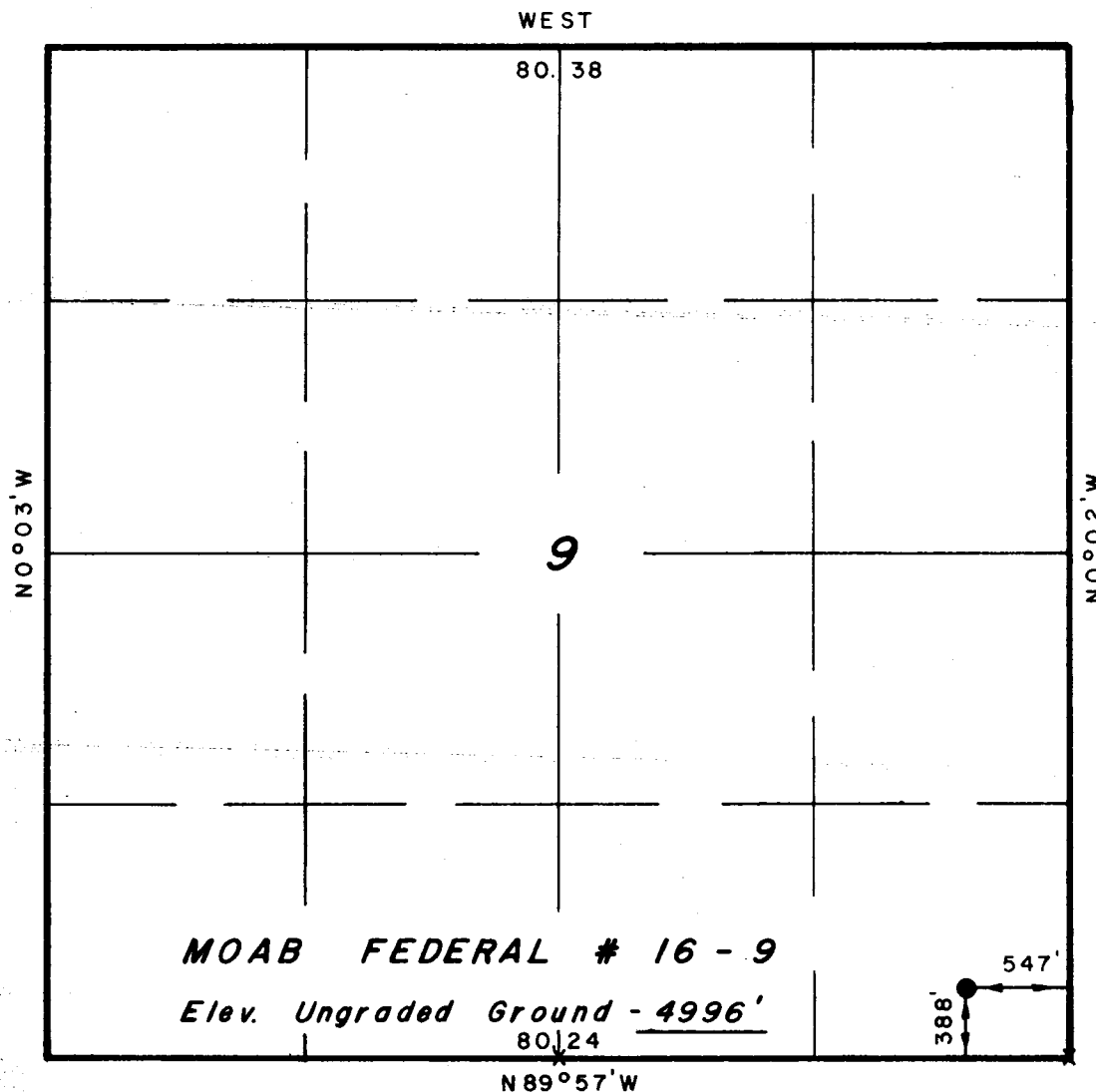
PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY _____ TITLE _____
CONDITIONS OF APPROVAL, IF ANY: _____
APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 12/16/81
BY: B. Feght

*See Instructions On Reverse Side

T 25 S , R 20 E , S.L.B. & M.

PROJECT
CHANDLER & ASSOCIATES INC.

Well location, **MOAB FEDERAL # 16 - 9**, located as shown in the SE 1/4 SE 1/4 Section 9, T 25 S, R 20 E, S.L.B. & M. Grand County, Utah.



X = Section Corners Located



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Laurence C. Kay
REGISTERED LAND SURVEYOR
REGISTRATION NO 3137
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P. O. BOX Q - 85 SOUTH - 200 EAST
VERNAL, UTAH - 84078

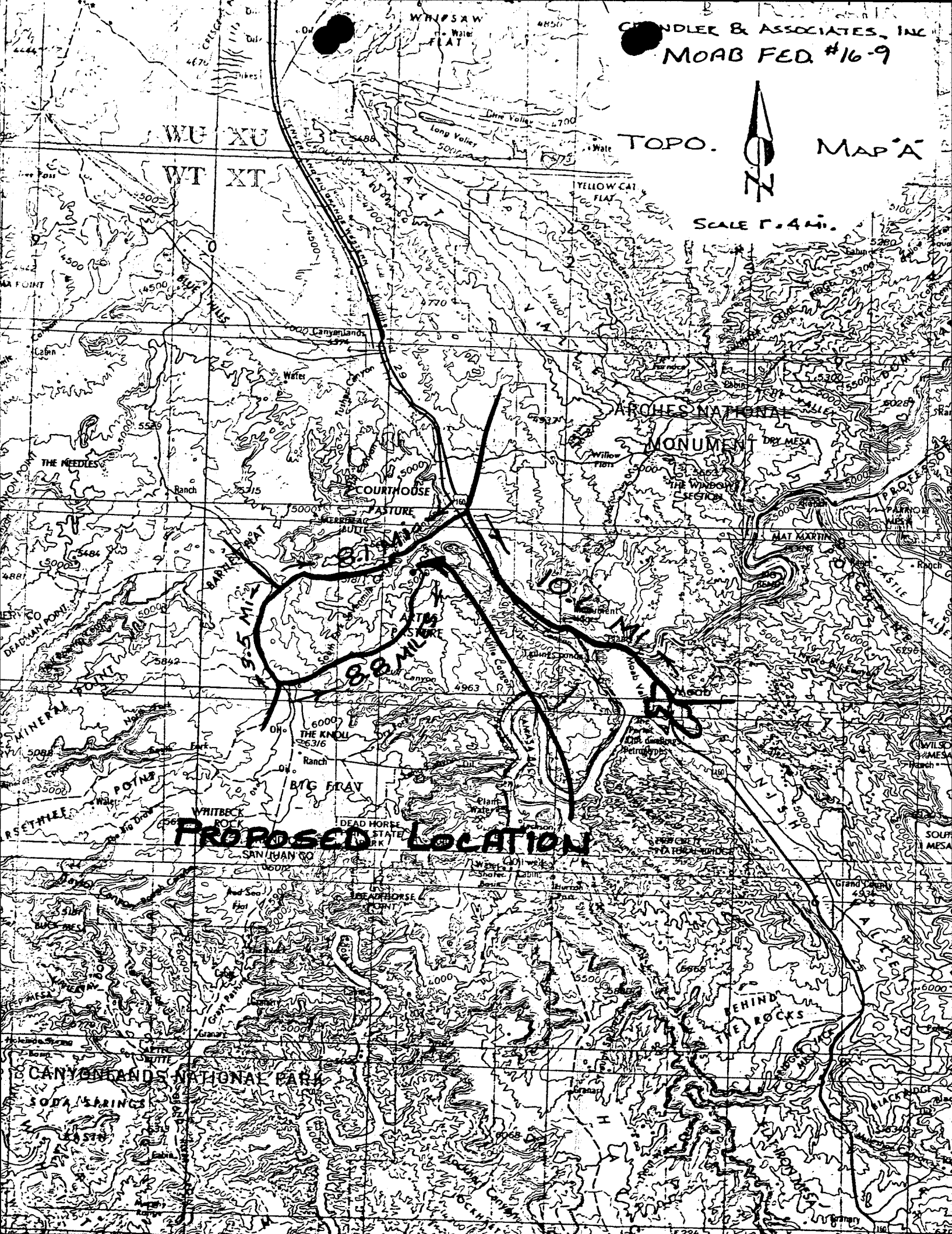
SCALE	1" = 1000'	DATE	10 / 23 / 81
PARTY	D.K. B.K. R.G.	S.B.	REFERENCES GLO Plat
WEATHER	Fair	FILE	CHANDLER & ASSOC.

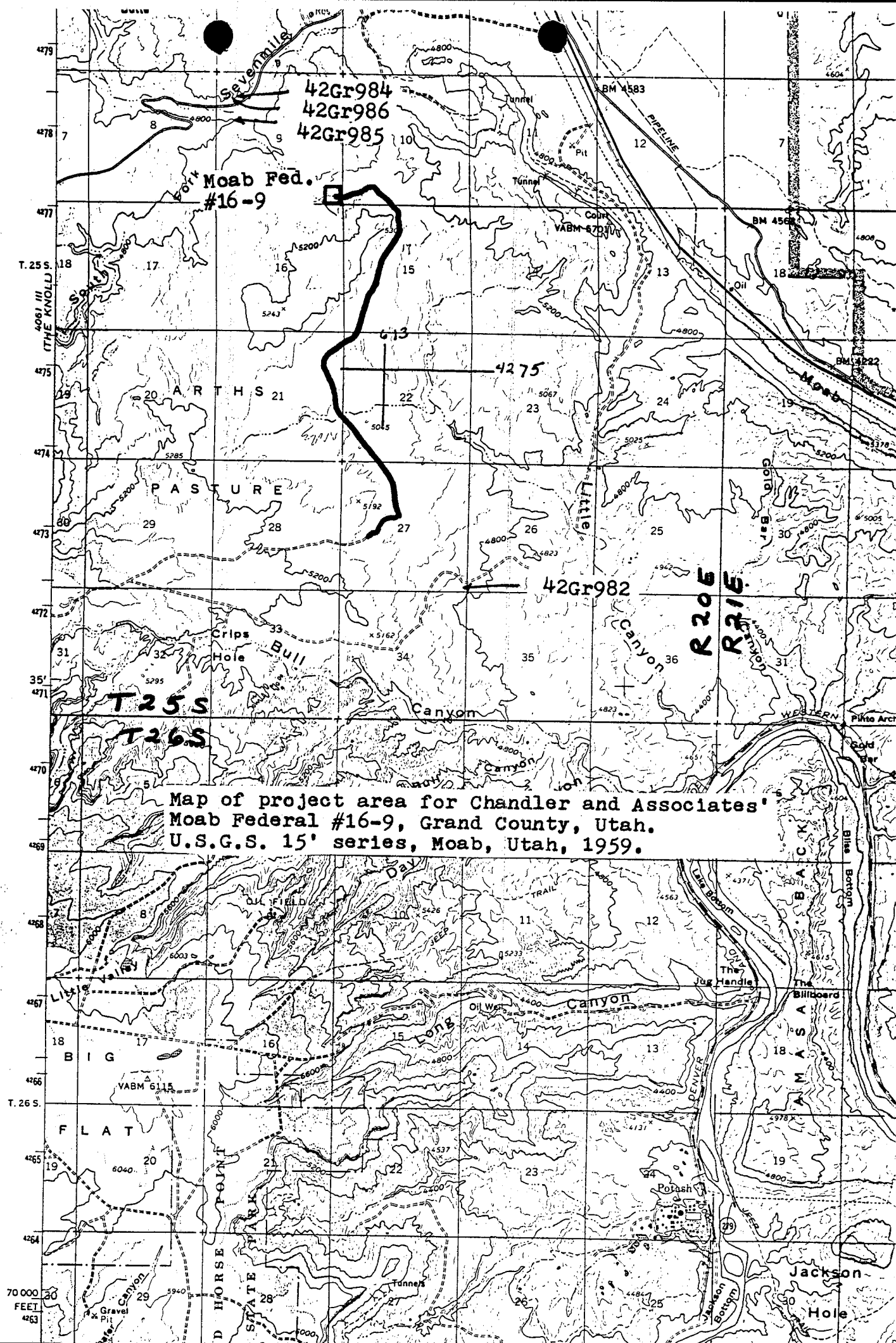
ТОРО.

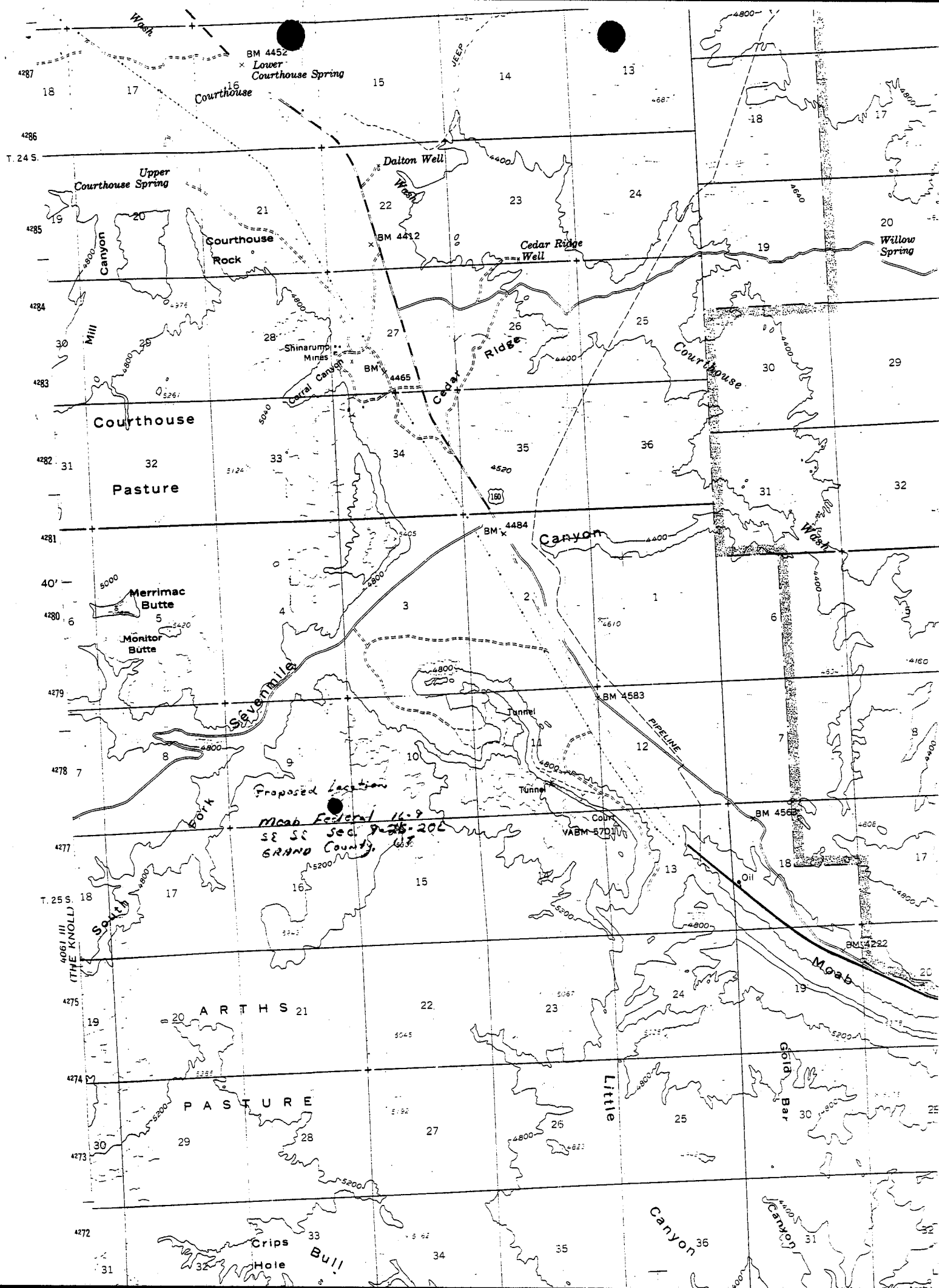
MAP 'A'



SCALE 1.4 mi.







CHANDLER & ASSOCIATES, INC.

13 Point Surface Use Plan

For

Well Location

Moab Federal #16-9

Located In

Section 9, T25S, R20E, S.L.B. & M.

Grand County, Utah

CHANDLER & ASSOCIATES, INC.
Moab Federal #16-9
Section 9, T25S, R20E, S.L.B. & M.

1. EXISTING ROADS

See attached Topographic Map "A".

To reach CHANDLER & ASSOCIATES, INC. well location site Moab Federal #16-9, located in the SE 1/4 SE 1/4 Section 9, T25S, R20E, S.L.B. & M. Grand County, Utah:

Proceed Northwesterly out of Moab, Utah on U.S. Highway 160 - 10.6 miles to its junction with the Dead Horse Point Highway to the Southwest; proceed in a Southwesterly direction along this Highway 11.6 miles to its junction with an improved dirt oil well access road to the East; proceed in an Easterly direction along this road \pm 4.45 miles to its junction with an existing jeep trail which proceeds in a Northwesterly direction to the proposed location site.

U.S. Highway 160 and the Dead Horse Point Highway are bituminous surfaced roads and are maintained by Utah State road crews. The dirt road described above is an improved dirt road which was constructed out of the materials accumulated during its construction.

The last 3.7 miles of jeep trail described above require extensive upgrading and will be treated in item #2 as a proposed access road.

The roads that are required for access during the drilling phase, completion phase, and production phase of this well, will be maintained to insure proper travel both entering and leaving the area. This may require some minor grader work, for smoothing of the road bed and for snow removal.

There will be no culverts required along the existing roads described above.

2. PLANNED ACCESS ROAD

See Topographic Map "B".

The existing jeep trail leaves the existing improved dirt road in Section 28, T25S, R20E, S.L.B. & M. and proceeds in a Northwesterly direction \pm 3.7 miles to the proposed location site in the SE 1/4 SE 1/4 Section 9, T25S, R20E, S.L.B. & M.

The proposed jeep trail (to be upgraded) will be an 18' crown road (9' either side of the centerline) with a drain ditch on the uphill side of the road which will handle any run-off from normal meteorological conditions that are prevalent to the area.

The grade along this road is relatively level with very few really rough spots except for the last 1/2 mile where there are a few spots which will be relatively steep. The maximum grade along this road will not exceed 8%.

CHANDLER & ASSOCIATES, INC.
Moab Federal #16-9
Section 9, T25S, R20E, S.L.B. & M.

There is one drainage encountered along this access road. It should be determined at the time of the onsite inspection whether a dry wash drainage crossing or a culvert should be used. In any case the culvert or crossing will be placed according to the Oil & Gas Surface Operations Manual prepared by the U.S.G.S. & B.L.M.

If deemed necessary at the time of the onsite inspection turnouts will be constructed for safety purposes. These turnouts will be constructed according to the specifications found on page 25 of the Oil and Gas Surface Operating Standards Manual prepared by the B.L.M. and U.S.G.S.

There are no fences encountered along this proposed road. There will be no new gates or cattleguards required.

3. EXISTING WELLS

See Topographic Map "B".

There are no known producing wells, water wells, abandoned wells, temporarily abandoned wells, disposal wells, drilling wells, shut-in wells, injection wells, monitoring or observation wells for other resources located within in a one-mile radius of this location site.

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

At the present time there are no other CHANDLER & ASSOCIATES, INC. production facilities, and gas gathering lines, tank batteries, oil gathering lines, injection lines or disposal lines within a one-mile radius. All existing facilities in the area are owned and operated by other companies.

In the event that production of this well is established, it will be contained within the location site until further plans can be submitted to the authorities for transporting of the produced materials.

The area used to contain the proposed production facilities will be built using native materials. If these materials are not acceptable then other arrangements will be made to acquire them from private sources. These facilities will be constructed using bulldozers, graders, and workman crews to construct and place the proposed facilities.

Rehabilitation of disturbed areas no longer needed for operations after construction is completed will meet the requirements of Item #10.

5. LOCATION AND TYPE OF WATER SUPPLY

Water to be used for the drilling of this well will be hauled by truck over the roads described in Items #1 and #2 from the Colorado River which is approximately 28 miles Southeast of the proposed location.

There will be no water will drilled at this location site.

CHANDLER & ASSOCIATES, INC.
Moab Federal #16-9
Section 9, T25S, R20E, S.L.B. & M.

6. SOURCE OF CONSTRUCTION MATERIALS

All construction material for this location site and access road shall be borrow material accumulated during construction of the location site and access road. No additional road gravels or pit lining material from other sources are anticipated at this time, but if they are required, the appropriate actions will be taken to acquire them from private sources.

All surface disturbance area is on B.L.M. lands.

7. METHODS OF HANDLING WASTE DISPOSAL

See Location Layout Sheet.

A reserve pit will be constructed.

The reserve pit will be approximately 8' and at least one half of this depth shall be below the surface of the existing ground.

One half of the reserve pit will be used as a fresh water storage area during the drilling of this well and the other one half will be used to store non-flammable materials such as cuttings, salts, drilling fluids, chemicals and produced fluids, etc.

If deemed necessary by the agencies concerned to prevent contamination to surrounding areas, the reserve pits will be lined with a gel.

The pits will have wire and overhead flagging installed if deemed necessary to protect the water fowl, wildlife, and domestic animals.

As stated in the aforementioned, non-flammable materials such as cuttings, salts, and drilling fluids, will be contained in the reserve pits.

At the onset of drilling, the reserve pit will be fenced on three sides and at the time drilling activities are completed, it will be fenced on the fourth side and allowed to dry completely prior to the time that backfilling and other reclamation activities are attempted.

When the reserve pit dries and reclamation activities commence, the pits will be covered with a minimum of four feet of soil and all requirements in Item #10 will be followed.

All produced water, if any will be disposed of according to NTL-2B requirements.

All garbage and other waste material will be contained in a trash basket made of small mesh wire and will be taken to the nearest sanitary landfill for disposal upon completion of the well.

A portable chemical toilet will be provided for human waste.

8. ANCILLARY FACILITIES

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

CHANDLER & ASSOCIATES, INC.
Moab Federal #16-9
Section 9, T25S, R20E, S.L.B. & M.

9. WELL SITE LAYOUT

See attached Location Layout Sheet.

The B.L.M. District Manager shall be notified before any construction begins on the proposed location site and road.

As mentioned in Item #7, the pits will be unlined unless it is determined by the representatives of the agencies involved that the materials are too porous and would cause contamination to the surrounding area; then the pits will be lined with a gel and any other type of material necessary to make it safe and tight.

When drilling activities commence, all work shall proceed in a neat and orderly sequence.

10. PLANS FOR RESTORATION OF SURFACE

As there is some topsoil on the location site, all topsoil shall be stripped and stockpiled. (See location layout sheet). When all drilling and production activities have been completed, the location site and access road will be reshaped to the the original contour and stockpiled topsoil spread over the disturbed area.

Any drainages re-routed during construction activities shall be restored to their original line of flow as near as possible. Fences around pits are to be removed upon completion of drilling activities and all waste being contained in the pits shall be buried with a minimum of 4' of cover.

As mentioned in Item #7, the reserve pits will be completely fenced with wire and overhead flagging installed if there is oil in the pits, and then allowed to dry completely before covering. All items mentioned above will be completed within 90 days after commencement of restoration procedures.

When restoration activities have been completed, the location site and access ramp shall be reseeded with a seed mixture recommended by the B.L.M. District Manager when the moisture content of the soil is adequate for germination. The Lessee further covenants and agrees that all of said clean-up and restoration activities shall be done and performed in a diligent and most workmanlike manner and in strict conformity with the above mentioned Items #7 and #10, and the Oil and Gas Surface Operating Standards Manual.

11. OTHER INFORMATION

The Topography of the General Area -- (See Topographic Map "A").

The area slopes from the Arches National Monument to the Canyon Lands National Park to the South, and is a portion of the Blue Hills. The area is interlaced with numerous canyons and ridges which are extremely steep with numerous ledges formed in sandstone, conglomerates, and shale deposits.

CHANDLER & ASSOCIATES, INC.
Moab Federal #16-9
Section 9, T25S, R20E, S.L.B. & M.

The soils in this semi-arid area of the Williams Fork Formation (Upper Cretaceous) and Wasatch Formation (Eocene) consist of light brownish-gray clays (OL) to sandy soil (SM-ML) type with poorly graded gravels.

Outcrops of sandstone ledges, conglomerate deposits and shale are common in this area.

The topsoils in the area range from a sandy clay (SM-ML) type soil to a clayey (OL) soil.

The majority of the numerous washes and draws in the area are of non-perennial nature flowing during the early spring run-off and heavy rain storms of long duration which are rare as the normal annual rainfall in the area is only 8".

The Colorado River flows from the Northeast to the Southwest and is the only drainage in the area that has a year-round flow of any consequence.

Due to the low precipitation average, climatic conditions and the marginal types of soils, the vegetation that is found in the area are common of the semi-arid regions and consists of juniper and pinion forest as the primary flora with areas of sagebrush, rabbitbrush, greasewood, some grasses and cacti.

The fauna of the areas is sparse and consists predominantly of the mule deer, coyotes, bears, rabbits, and varieties of small ground squirrels and other types of rodents.

The birds of the area are raptors, finches, ground sparrows, magpies, crows, and jays.

The area is used by man for the primary purpose of grazing domestic livestock.

The Topography of the Immediate Area - (See Topographic Map "B").

Moab Federal #16-9 is located on a relatively flat area approximately 1/2 mile from a large cliff which drops down into Seven Mile Canyon.

The ground slopes through this location site at approximately a 3.0% grade towards the Northwest.

The majority of the drainages in the area around this location are non-perennial and run in a Northeasterly direction and then in a Southeasterly direction into the Colorado River.

The geologic structure of the area immediately surrounding the location site is of the Williams Fork Formation and consists of light brown sandy clay soil with some sandstone outcrops.

The vegetation in the immediate area surrounding the location site is predominantly juniper and pinion pine with some sagebrush and grasses.

CHANDLER & ASSOCIATES, INC.
Moab Federal #16-9
Section 9, T25S, R20E, S.L.B. & M.

All lands disturbed by this location site and road are under B.L.M. jurisdiction.

There are no occupied dwellings or other facilities of this nature in the general area.

There are no visible historical sites within any reasonable proximity of the proposed location site. It will be determined by an archaeologist whether there are any archaeological findings in the area. (See Topographic Map "B"). Dead Horse Point State Park is located approximately 8 miles South of this location site.

12. LESSEE'S OR OPERATOR'S REPRESENTATIVE

Richard Veghte
Vice President and Engineer
1401 Denver Club Building
Denver, CO 80202

1-303-222-7911

13. CERTIFICATION

I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge true and correct; and that the work associated with the operation proposed herein will be performed by CHANDLER & ASSOCIATES and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Date

Richard Veghte

Identification No. 051-82

United States Department of the Interior
Geological Survey
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

NEPA CATEGORICAL EXCLUSION REVIEW

PROJECT IDENTIFICATION

Operator CHANDLER AND ASSOCIATES INC.

Project Type OIL WELL

Project Location 388' FSL, 347' FEL, SEC 9, T25S, R20E

Well No. 16-9 Lease No. U-24550

Date Project Submitted 11-16-81

FIELD INSPECTION

Date 12-2-81

Field Inspection
Participants

GEORGE DIWACHAK

USGS

ELMER DUNCAN, KEVIN CLEARY

BLM

DAVE BURNETT, CARL WINTERS

CHANDLER

JAN BOYD

CANYONLANDS CONTRACTING

I have reviewed the proposal in accordance with the categorical exclusion review guidelines. This proposal would not involve any significant effects and, therefore, does not represent an exception to the categorical exclusions.

12/21/81

Date Prepared

George J. Diwachak
Environmental Scientist

I concur

DEC 22 1981

Date

W. W. Martus

FOR E. W. GUYNN
DISTRICT OIL & GAS SUPERVISOR

District Supervisor

CATEGORICAL EXCLUSION REVIEW INFORMATION SOURCE

Criteria 516 DM 2.3.A	Federal/State Agency			Local and private corre- spondence (date)	Previous NEPA	Other studies and reports	Staff expertise	Onsite inspection (date)	Other
	Corre- spondence (date)	Phone check (date)	Meeting (date)						
1. Public health and safety	1 () ↓						6	6 (12-2-80) ↓	4,8
2. Unique charac- teristics	1						6	6	4,8
3. Environmentally controversial	1						6	6	4,8
4. Uncertain and unknown risks	1						6	6	4,8
5. Establishes precedents							6	6	
6. Cumulatively significant							6	6	
7. National Register historic places	1 () ↓								
8. Endangered/ threatened species	1								
9. Violate Federal, State, local, tribal law	1						6	6	4,8

CATEGORICAL EXCLUSION REVIEW COMMON REFERENCE LEGEND

1. Surface Management Agency Input
2. Reviews Reports, or information received from Geological Survey
(Conservation Division, Geological Division, Water Resource Division,
Topographic Division)
3. Lease Stipulations/Terms
4. Application for Permit to Drill
5. Operator Correspondence
6. Field Observation
7. Private Rehabilitation Agreement
8. RECOMMENDED STIPULATIONS



Chandler 16-9 ↑
E



Chandler 16-9 ↑
W



Chandler 16-9 ↑
NW
TOWARD PIT

RECOMMENDED STIPULATIONS

1. THE ACCESS ROUTE WILL BE CHANGED TO LEAVE THE COUNTY ROAD IN SE/4SW/4 SEC 29 (T 25S, R 20E) AND TRAVEL NORTH AND EAST THROUGH SECTIONS 28, 27, 22, 21 AND 15 BEFORE REACHING LEASE BOUNDARIES ON THE NORTH LINE OF SECTION 15 AS NOTED IN THE BLM RIGHT-OF-WAY GRANT ISSUED FOR THE PROJECT.
2. THE RESERVE PIT WILL BE LINED WITH 20 MIL PLASTIC SANDWICHED BETWEEN BEDS OF SAND TO PREVENT LINER PUNCTURE AND SEEPAGE. THE RESERVE PIT BANKS WILL BE 1.5 TO 2.0 FEET ABOVE PAD AND CONSTRUCTED IN 8 INCH LIFTS, MACHINERY COMPACTED, AND SUFFICIENTLY WIDE FOR EQUIPMENT TO PASS OVER. PIT(S) WILL BE 8 FEET DEEP.



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Moab District
Grand Resource Area
P. O. Box M
Moab, Utah 84532

IN REPLY REFER TO

3109
U-24550
(U-068)

DEC 09 1981

Memorandum

To: Oil & Gas Office, USGS Conservation Division,
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84078

From: Area Manager, Grand

Subject: Chandler & Associates
Well #16-9, Lease U-24550
SE/SE Section 9, T. 25 S., R. 20 E., SLB&M
Grand County, Utah

On December 2, 1981, a representative from this office met with George Diwachak, USGS, and Dave Burnett agent of Chandler and Associates, Inc. for an inspection of the above referenced location. Subject to the attached conditions, I am approving the surface management portion of the Application for Permit to Drill.

The archaeological requirement has been fulfilled on this location. No threatened or endangered flora or fauna are indicated in the area.

Please forward the enclosed information to Chandler & Associates Inc.

Enclosures (4)
1-Reclamation Procedures
2-Seed Mixture
3-Suggested Colors - Production Facilities
4-Class III Roads Survey & Design

Company: Chandler & Assoc., Inc.
Well: 16-9
Section 9, T. 25 S., R. 20 E.

ADDITIONS TO THE MULTIPPOINT
SURFACE USE PLAN
AND
RECLAMATION PROCEDURES

CONSTRUCTION:

1. The operator or his contractor will contact the Grand Resource Area Office in Moab, Utah (phone (801) 259-6111) 48 hours prior to beginning any work on public land.
2. The dirt contractor will be furnished with an approved copy of the surface use plan and any additional BLM stipulations prior to any work.
3. Use of water from sources such as wells, springs, streams or stock ponds for activities associated with this well will be approved, prior to use, by the agency or individual holding the water right.
4. If subsurface cultural material is exposed during construction, work in that spot will stop immediately and the Grand Resource Area Office will be contacted. All employees working in the area will be informed by the operator that they will be subject to prosecution if they are caught disturbing archeological sites or picking up artifacts. Salvage or excavation of identified archaeological sites will only be done if damage occurs.
5. Improvement to the existing road on lease in sections 9 and 10, T. 25 S., R. 20 E will be necessary. The total disturbed width allowed will be 28 feet. The allowable travel surface will be 20 feet. This section of the access in sections 9 and 10 will be crowned, (up to 3 inches) and ditched, existing berms pulled onto the road. Low water crossings will be constructed at each drainage.

Trees (pinyon and juniper) removed from the existing road area, for road improvement, will be windrowed along the north side.

Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.

Surfacing material will not be placed on the access road or location without prior BLM approval.

6. The top 6 inches of soil material will be removed from the location and windrowed separate from the trees on the east side of the location.

Trees and vegetation will be removed from the location and piled behind (east) of the topsoil.

- omit -
See USGS
SRP #2
7. The reserve pit will be lined with 20 mill plastic sufficient to prevent seepage. ~~Keyway~~. The reserve pit banks will be 1.5 to 2.0 feet above pad and constructed in 8 inch lifts, machinery compacted, and sufficiently wide for equipment to pass over. Pit(s) will be 8 feet deep.

8. Three sides of the reserve pit will be fenced before drilling starts. The fourth side will be fenced as soon as the drilling is completed. The fence will be kept in good repair while the pit is drying. The fence will be 4 strand barbed wire.
9. Waterbars will be used as needed on all sloping surfaces as shown below:

<u>Grade</u>	<u>Spacing</u>
2%	200 feet spacing
2-4%	100 feet spacing
4-5%	75 feet spacing
+5%	50 feet spacing

10. A ditch will be constructed along the east side of the pad for water control.

PRODUCTION

1. The reserve pit and that portion of the location not needed for production or production facilities will be reclaimed in the methods described in the rehabilitation section.
2. All above-ground production facilities will be painted using the attached suggested colors.
3. The access will be to the design of a Class III road.
4. At least 3 foot high soil berms will be constructed around the oil storage tanks. The oil loading valves will be kept inside the berm.

SEED MIXTURE

<u>SPECIES</u>		<u>Rate</u>
Grasses		lbs/ac
Oryzopsis hymenoides	Indian rice grass	1
Hilaria jamesii	Curley grass	1
Forbs		
Sphaeralcea coccinea	Globemallow	1
Shrubs		
Purshia tridentata	Bitterbrush	1
Ephedra nevadensis	Mormon tea	1
Coleogyne ramosissima	Blackbrush	<u>1</u>
		5

Seeding will be done during the fall of the year (Oct. - December).

Broadcast seed will be applied at two times the above rate. (10 pounds per acre).



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

IN REPLY REFER TO

SUGGESTED COLORS TO PAINT OIL & GAS PRODUCTION FACILITIES

Cisco Desert and Flats below the Bookcliffs:

Dynasty Green	(Sears)
Tumbleweed	(Pratt & Lambert)
Desert Tan	-----
Sage Gray	(Pratt & Lambert)

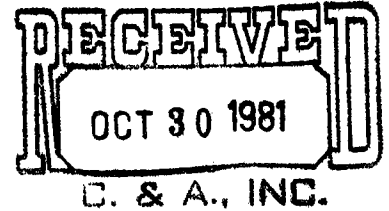
Bookcliffs Region:

Sage Gray	(Pratt & Lambert)
Sea Life	(Pratt & Lambert)
Dynasty Green	(Sears)

Similar hues other than the ones mentioned above must be approved by the Grand Resource Area Manager.

J. M. HUBER CORPORATION

1601 FIRST NATIONAL BANK BUILDING
DENVER, COLORADO 80293
OIL AND GAS DIVISION



DENVER DISTRICT
825-5611

October 29, 1981

Chandler & Associates, Inc.
1401 Denver Club Building
Denver, Colorado 80202

Attn: Mr. David Burnett

Re: Your Request for Spacing Exception
Moab Federal 16-9
SE/4SE/4 Sec 9-25S-20E
Grand County, Utah
31-N-237-F

Dear David:

As you requested, attached is our letter to the State of Utah concerning your exception request.

Very truly yours,

J. M. HUBER CORPORATION

A handwritten signature in cursive script that reads "Roger A Steele".

Roger A. Steele
District Landman

RAS/bd
Attachment

J. M. HUBER CORPORATION

1601 FIRST NATIONAL BANK BUILDING

DENVER, COLORADO 80293

OIL AND GAS DIVISION

DENVER DISTRICT
825-5611

October 29, 1981

Division of Oil, Gas and Mining
1588 West, North Temple
Salt Lake City, Utah 84116

Attn: Mr. Cleon B. Feight
Director

Re: Request for Spacing Exception
Moab Federal 16-9
Grand County, Utah
31-N-237-F

Gentlemen:

J. M. Huber Corporation, as record title owner of oil and gas lease covering W/2, SE/4, Section 16-25S-20E, has no objection to the request for spacing exception by Chandler & Associates for the drilling of subject well at a location 548' FEL, 388' FSL of Section 9-25S-20E, Grand County, Utah.

Very truly yours,

J. M. HUBER CORPROATION



Roger A. Steele
District Landman

RAS/bd

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Salt Lake City, Utah
SERIAL NO.: USA U-24550

and hereby designates

NAME: CHANDLER & ASSOCIATES, INC.
ADDRESS: 1401 Denver Club Building
Denver, Colorado 80202

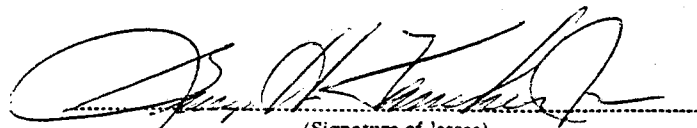
as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

Township 25 South, Range 20 East, SLM
Section 1: Lots 3, 4, 9, 10, 13, 14, 15, 16,
NESW, SE
Section 4: Lots 1 through 14, SW
Section 9: All
Section 10: NWNW, S $\frac{1}{2}$ NW, SW, NWSE, S $\frac{1}{2}$ SE
Section 12: E $\frac{1}{2}$ NE
containing 2,293.26 acres, more or less.
Grand County, Utah

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.



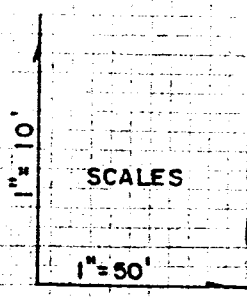
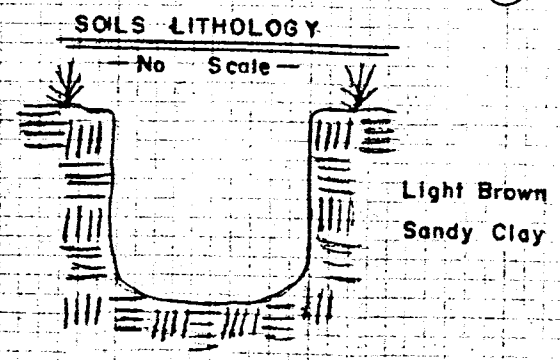
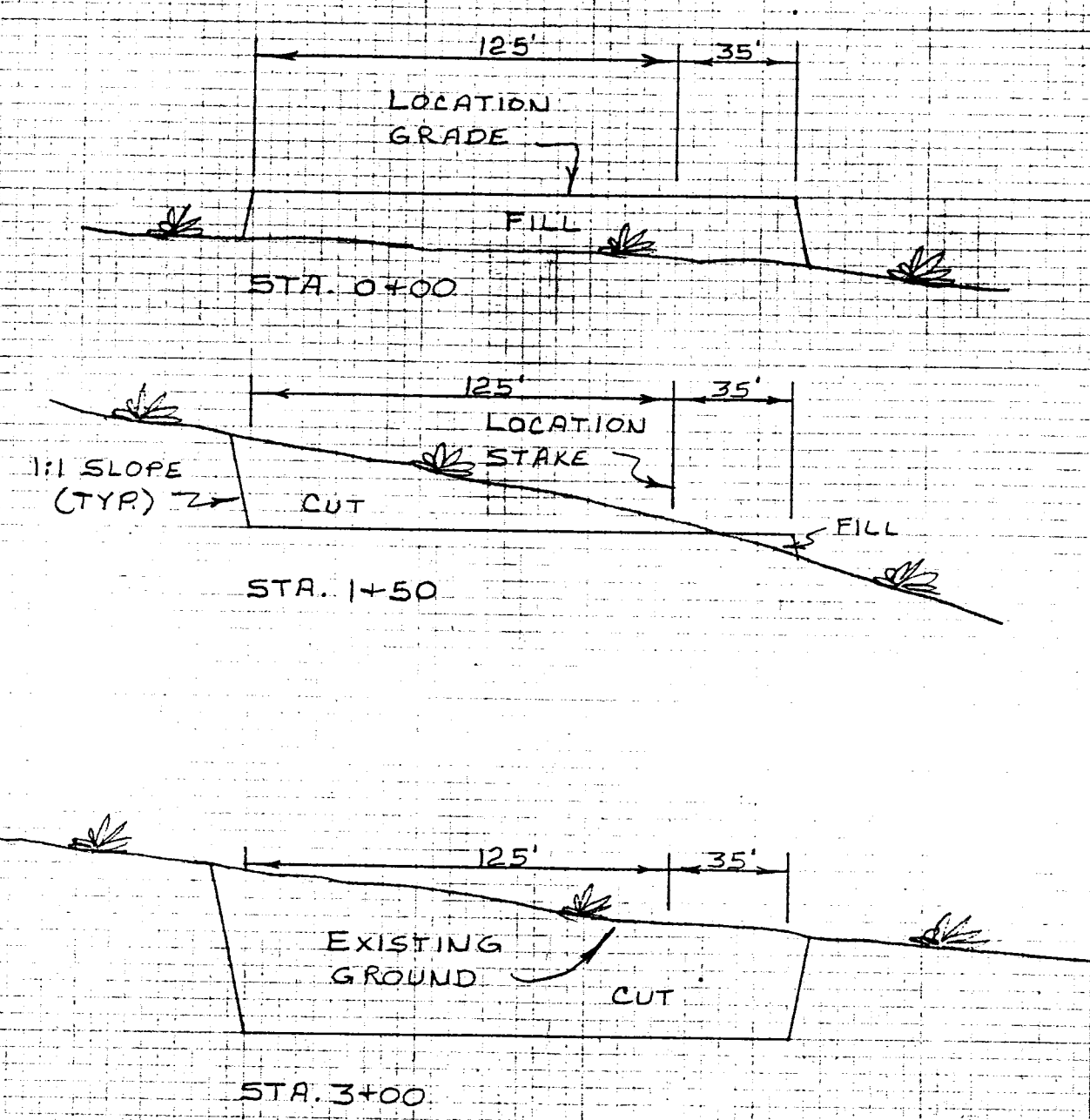
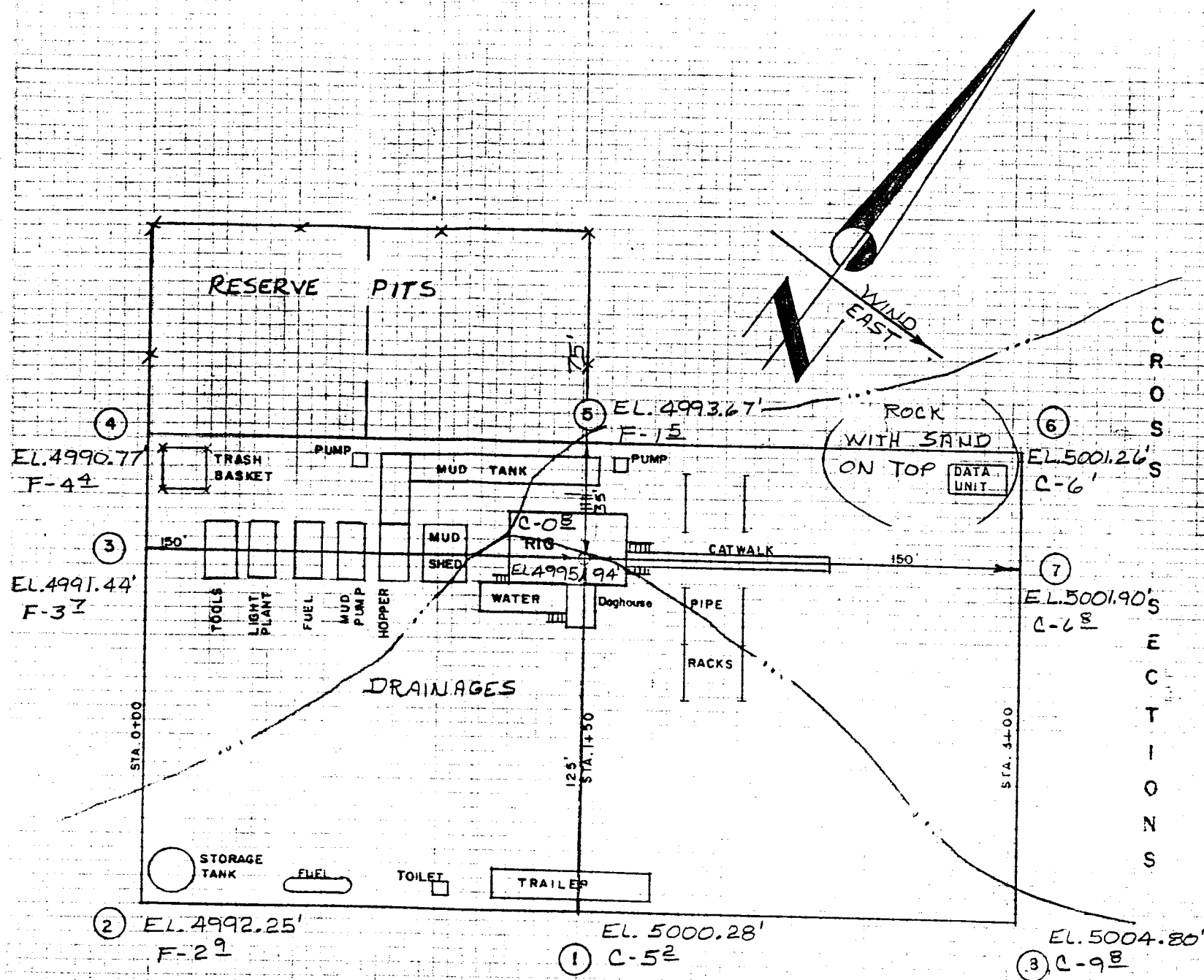
(Signature of lessee)

GEORGE H. FANCHER, JR.
650 17th Street, Suite 508
Denver, Colorado 80202

(Address)

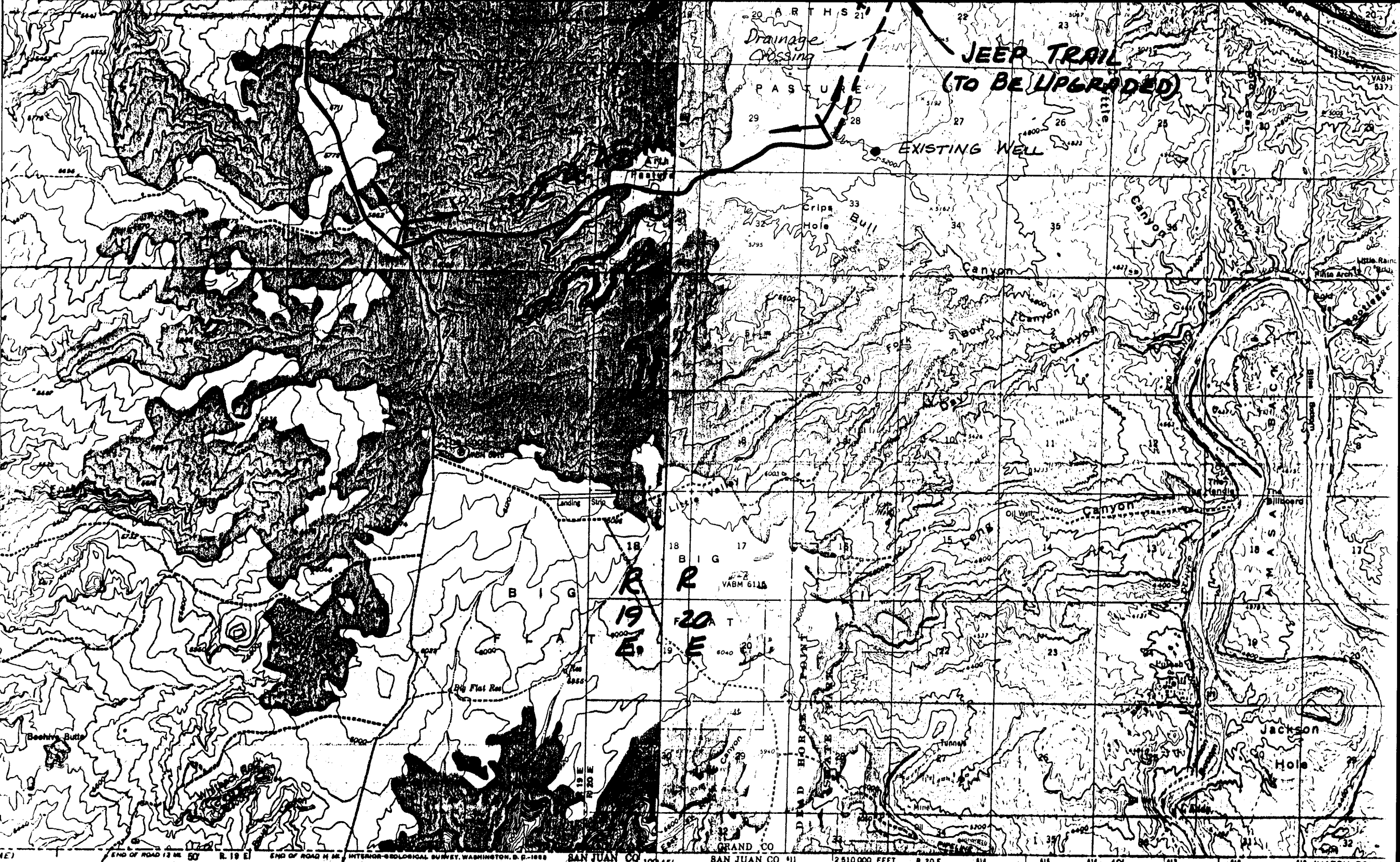
12/1/61
(Date)

CHANDLER & ASSOCIATES INC.
MOAB FEDERAL #16-9



APPROXIMATE YARDAGES

Cubic Yards of Cut	5828
Cubic Yards of Fill	1668



CHANDLER & ASSOCIATES, INC.

MOAB FED #16-9

TOPO.

MAP "B"

SCALE 1" = 2000'

ROAD CLASSIFICATION

Medium-duty _____ Light-duty _____

Unimproved dirt - - - - -

UTAH

QUADRANGLE LOCATION

Jug Rock Flat

Courthouse

Pasture

T24S

T25S

Merrimac Butte

Monitor Butte

11.6 Mi.

PROPOSED LOC.
MOAB FED #16-9

3.7 Mi.

MOAB

10.4 Mi.

**ARCHAEOLOGICAL SURVEY OF
CHANDLER AND ASSOCIATES
MOAB FEDERAL #16-9 WELL LOCATION
AND ASSOCIATED ACCESS ROUTE,
GRAND COUNTY, UTAH**

GRC Report 81144

by
Thomas F. Babcock, Ph.D.
Supervising Archaeologist
and
John D. Hartley, M.A.
Project Archaeologist

GRAND RIVER CONSULTANTS, Inc.
576 25 Road, Suite 11
Grand Junction, CO 81501
(303) 241-0308

November 17, 1981

Prepared for:
CHANDLER AND ASSOCIATES
1401 Denver Club Bldg.
Denver, CO 80202

Distribution:

BLM - State Office, Salt Lake City (1)
District Office, Moab (1)
Area Office, Moab (1)
Utah State Historical Society, Antiquities Division (1)
Chandler and Associates (1)

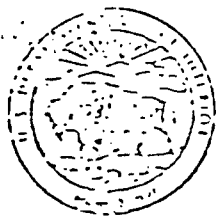
U.S.

For BLM Use Only

Report Acceptable Yes ☐ No ☐

Comments: _____

~~1~~ Include only requested information in numbered spaces



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Moab District

P.O. Box 970

Moab, Utah 84532

IN REPLY REFER TO

2800

(U-060)

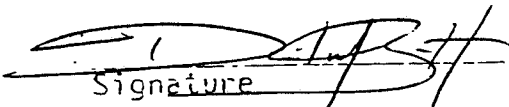
Chandler & Ass.
Moab Fed. well #16-9

ACCEPTANCE

NOTICE OF STIPULATIONS

I here by certify that I am an authorized officer for *Chandler & Ass.*

I have reviewed and by my signature do accept the terms
and conditions of right-of-way grant *449767*


Signature

Regulatory Coordinator
Title

12/2/81
Date

Terms and Conditions of Right-of-Way Grant

Serial No. U-49767

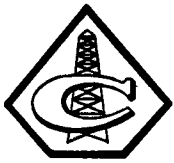
General Stipulations:

1. The applicant by accepting this right-of-way grant, agrees and consents to be bound by all terms and conditions of 43 CFR 2800 and all valid rights existing on the date of grant.
2. "The Company (Holder) agrees not to exclude any person from participating in employment or procurement activity connected with this grant on the grounds of race, creed, color, national origin and sex, and to ensure against such exclusions, the Company (Holder) further agrees to develop and submit to the proper reviewing official specific goals and timetables with respect to minority and female participation in employment and procurement activity connected with this grant. The Company (Holder) will take affirmative action to utilize business enterprises owned and controlled by minorities or women in its procurement practices connected with this grant. Affirmative action will be taken by the Company (Holder) to assure all minorities or women applicants full consideration of all employment opportunities connected with this grant. The Company (Holder) also agrees to post in conspicuous places on its premises which are available to contractors, subcontractors, employees and other interested individuals, notices which set forth equal opportunity terms; and to notify interested individuals, such as bidders, contractors, purchasers and labor unions or representatives of workers within whom it has collective bargaining agreements, of the Company's equal opportunity obligations."
3. This right-of-way may be renewed. If renewed, the right-of-way will be subject to regulations existing at the time of renewal and such other terms and conditions deemed necessary to protect the public interest.
4. The Holder shall comply with the applicable Federal and state laws and regulations concerning the use of pesticides (i.e., insecticides, herbicides, fungicides, rodenticides, and other similar substances) in all activities/operations under this grant. The Holder shall obtain from the Authorized Officer approval of a written plan prior to the use of such substances. The plan must provide the type and quality of material to be used; the pest, insect, fungus, etc. to be controlled; the method of application; the location for storage and disposal of containers; and other information that the Authorized Officer may require. The plan should be submitted not later than December 1 of any calendar year that covers the proposed activities for the next fiscal year (i.e., December 1, 1979, deadline for a fiscal year 1981 action). Emergency use of pesticides may occur. The use of substances on or near the right-of-way shall be in accordance with the approved plan. A pesticide shall not be used if the Secretary of the Interior has prohibited its use. A pesticide shall be used only in accordance with its registered uses and within other limitations if the Secretary has imposed limitations. Pesticides shall not be permanently stored on the public lands authorized for use under this grant.

Special Stipulations:

1. The Holder will be particularly alert in any operations to take all reasonable and necessary precautions to protect and preserve historic or prehistoric ruins and artifacts on or adjacent to the right-of-way. Should such sites, ruins or artifacts be discovered, the Holder will immediately suspend work involving the area in question and advise BLM's District Manager of the suspected values. Cost of any salvage work will be borne by the Holder. All objects of antiquity salvaged from public lands are the property of the United States Government and will be turned over to the BLM.
2. The Holder shall not conduct construction operations when soils or surface materials are in a wet or saturated state (equipment being used sinks three inches or more).
3. After conclusion of construction, all construction materials, litter, and debris will be disposed of within 30 days.
4. During construction travel shall be restricted to the right-of-way and existing public roads.
5. The Holder will do everything reasonable within his or her power, both independently or upon request of the Authorized Officer, to prevent and suppress fires on or in the immediate vicinity of the right-of-way. This includes making available such construction and maintenance forces as may be reasonable for the suppression of fires.
6. The Holder will notify the BLM Grand Resource Area Manager at least seven days in advance of intent to commence field operations associated with this right-of-way grant. At this time arrangements will be made for a prework conference between representative of BLM, the Holder and his contractors.
7. The Holder will submit a centerline survey within 60 days after completion.
8. Erosion control techniques and devices will be utilized. See attached Surface Use Standards for examples.
9. The disturbed area must be recontoured to its natural state and reseeded between September 15 and November 15. If the first reseed-ing fails the area will be reseeded until acceptable success is obtained at the Holder's expense. The well site seed mixture will be used for the rehabilitation.
10. The Right-of-Way Grant is subject to receipt of an Approved Permit to Drill (APD) from USGS.
11. The road R/W begins at the end of a country road in the SE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 29 (T 25 S., R. 20 E., SLB&M) and travels north and east thru sections- 28, 27, 22, 21 and 15 before reaching lease boundaries on the north line of section 15 (see map).

12. The length of the road right-of-way is approximately 4.9 miles. The road shall have a 20 foot travel surface with a maximum 28 feet total disturbed area.
13. The existing road portion of the right-of-way shall be up-graded to meet BLM Class III Road Standards. This would include but, not be limited to pulling the berms, establishing a minimum three inch crown, constructing borrow ditches on the sides of the road, constructing low water crossings at washes and utilizing drainage dips as needed to disperse water.
14. The road up-grading and construction will require some blasting, ripping, or patching to meet BLM Class III Road Standards. (See attachment). Soil as needed can be hauled from other parts of the right-of-way to patch the road.
15. Removal of vegetation shall be held to the absolute minimum necessary for proper construction techniques. There shall be no removal of pinyon or juniper trees outside the 28 foot total disturbance limits.
16. If the well is determined to be a non-producer this right-of-way will no longer remain in effect and the Holder will file a letter of relinquishment as requested by the Authorized Officer. Rehabilitation may be required by Authorized Officer at a later date or when the well is no longer a producer.
17. A portion of the right-of-way travels over land that is presently under a State Exchange Application. If at some future date this exchanged proposal becomes a reality then the Holder would be responsible for obtaining an easement from the State of Utah, if the BLM no longer retains any jurisdiction over this area.
18. The Holder will stockpile excess vegetation and trees to the east side of the road.



CHANDLER & ASSOCIATES, INC.

1401 DENVER CLUB BUILDING

DENVER, COLORADO 80202

303 629-6756

OIL AND GAS EXPLORATION AND PRODUCTION

December 11, 1981

UTAH Division of Oil, Gas and Mining
1588 West, North Temple
Salt Lake City, UT

ATTENTION: Cleon Feight

Gentlemen:

Enclosed please find 3 copies of the Application to Permit
to Drill for the following well:

Moab Federal 16-9
SE SE Sec. 9-25S-20E
Grand County, UT

Also enclosed is a letter from J. M. Huber Corporation
approving approving our request for an exception to State
Spacing Rules.

As you can see from the plat, our location measures approximately
388' FSL. This clearly is inconsistent with state rules which
require that the location be at least 600 feet from the nearest
lease line. However, under the regulations, if the record
title holder of the affected acreage do not oppose such movement,
the state rule can be waived. Such is the case with this location.

In addition to the letter from J.M. Huber Corporation, you will
be receiving a letter from Mr. Pitam of Wexpro, the other
record title holder.

Thanks for your consideration of this request. We would like to
commence dirt work as soon as possible while the weather is
good, so anything you can do to expedite this permit would be
greatly appreciated.

Sincerely yours,


David M. Burnett

** FILE NOTATIONS **

DATE: Dec. 14, 1981

OPERATOR: Chandler & Associates, Inc.

WELL NO: Moab Federal #16-9

Location: Sec. 9 T. 25S R. 20E County: Grand

File Prepared: ☒

Entered on N.I.D: ☒

Card Indexed: ☒

Completion Sheet: ☒

API Number 43-019-30910

CHECKED BY:

Petroleum Engineer: _____

Director: OK as per Rule C-3 (C)

Administrative Aide: As Per Rule C-3(c) OK on other wells, needs Lease ownership ok from W. expect.

APPROVAL LETTER:

Bond Required: ☐

Survey Plat Required: ☐

Order No. _____

O.K. Rule C-3 ☐

Rule C-3(c), Topographic Exception - company owns or controls acreage within a 660' radius of proposed site ☐

Lease Designation fed.

Plotted on Map ☐

Approval Letter Written ☐

Hot Line ☒

P.I. ☒

REHABILITATION

1. Immediately upon completion of drilling, the location and surrounding area will be cleared of all debris resulting from the operation. All trash will be disposed of in the trash cage. Non-burnable debris will be hauled to a local town dump site.
2. The operator or his constractor will contact the Grand Resource Area BLM office in Moab, Utah, phone (801) 259-6111, 48 hours prior to starting rehabilitation work that involves earthmoving equipment and upon completion of restoration measures.
3. Before any dirt work to restore the location takes place, the reserve pit must be completely dry and any trash (barrels, metal etc.) it contains must be removed from public lands.
4. All disturbed areas will be recontoured to blend as nearly as possible with the surrounding area.
5. The stockpiled topsoil will be evenly distributed over the disturbed area.
6. All disturbed areas will be scarified with the contour to a depth of 6 inches. Do not smooth pads out, leave a roughened surface.
7. Seed will be (broadcasted/drilled) at a time to be specified by the BLM with the enclosed seed prescription. When boradcast seeding, a harrow or some such implement will be dragged over the seeded area to assure seed cover. Broadcast seed will be applied at two times the pound per acre shown on the enclosed seed mixture.
8. After seeding is complete the stockpiled trees will be scattered evenly over the disturbed areas and walked down with a dozer.

RECEIVED
DEC 23 1981

DIVISION OF
OIL, GAS & MINING



WEXPRO COMPANY

P.O. BOX 11070 • SALT LAKE CITY, UTAH 84147 • PHONE (801) 532-6207

December 17, 1981

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
1588 West North Temple
Salt Lake City, UT 84116

Gentlemen:

Re: Chandler & Associates, Inc.
Moab Federal 16-9 Well
548' FEL, 388' FSL
SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 9, T-25-S, R-20-E, SLM
Grand County, Utah

Wexpro Company is the owner of State of Utah Oil, Gas and Hydrocarbon Lease ML-36195, which covers the NE $\frac{1}{4}$ of Section 16, Township 25 South, Range 20 East, Salt Lake Base and Meridian. The lease is within 500 feet of Chandler's proposed location of the Moab Federal 16-9 Well referenced above.

Wexpro Company hereby consents to the exception location pursuant to Rule C-3(c)(2), Rules of the Utah Oil and Gas Commission.

RSH:lj

WEXPRO COMPANY

By: 

Title: Director, Lands & Leasing

RECEIVED
JAN 08 1982

DIVISION OF
OIL, GAS & MINING

January 19, 1982

Chandler & Associates, Inc!
1401 Denver Club Bldg.
Denver, Colorado 80202

Re: Well No. Moab Federal #16-9
Sec. 9, T. 25S, R. 20E
Grand County, Utah

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with Rule C-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immedeately notify the following:

CLEON B. FEIGHT - Director
Office: 533-5771
Home: 466-4455

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-019-30910.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Cleon B. Feight

Cleon B. Feight
Director

CBF/as
Encl.
cc: USGS

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE*
(Other instructions on
reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		LEASE DESIGNATION AND SERIAL NO. USA U-24550	
2. NAME OF OPERATOR Chandler & Associates, Inc.		IF INDIAN, ALLOTTEE OR TRIBE NAME -----	
3. ADDRESS OF OPERATOR 1401 Denver Club Bldg., Denver, Colorado 80202		UNIT AGREEMENT NAME -----	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 388' FSL; 547' FEL (SE SE)		5. FARM OR LEASE NAME Moab Federal	
14. PERMIT NO. 43-019-30910		9. WELL NO. 16-9	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4996' GR		10. FIELD AND POOL, OR WILDCAT Wildcat	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 9-25S-20E	
		12. COUNTY OR PARISH Grand	13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) 30-day update information <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Spud 5:30 AM January 11, 1982. Set 12 jts 13 3/8" 54.5# K-55 ST&C csg at 512' KB w/400 sx cmt. Plug down 2:00 PM 1-14-82. Set 109 jts 9 5/8" 36# J-55 ST&C intermediate csg at 4450' w/600 sx cmt on 1-27-82. Well depth as of 2-12-82 is 8,549'. Current operation is running DST #1 from 8496-8549'. Results not yet available.

18. I hereby certify that the foregoing is true and correct

SIGNED

W.P. Marx W.P. Marx

TITLE

Petroleum Engineer

DATE

2-12-82

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

DIVISION OF OIL, GAS AND MINING

PLUGGING PROGRAM

NAME OF COMPANY: Chandler & Associates

Mobil Ph. 303-562-3118
Bill Latch Phone No. 259-7141 Rm. 14

WELL NAME: Moab Federal #16-9

SECTION 9 TOWNSHIP 25S RANGE 20E COUNTY Grand

VERBAL APPROVAL GIVEN TO PLUG AND ABOVE REFERRED TO WELL IN THE FOLLOWING MANNER:

TOTAL DEPTH: 9970'

CASING PROGRAM:

13 3/8" @ 512' Cement to Surface
9 5/8" @ 4470 Cement with 500 Sx

FORMATION TOPS:

Navajo	Surface
Chinle	480'
Shinarump	910'
Moenkopi	963'
Cutler	1240'
Hermosa	3100'
Top of Salt	4700'
Base of Salt	9448'
Top of Leadville	9590'
Ouray	TD

PLUGS SET AS FOLLOWS:

1. 9550'-9350'
2. 7100'-6900'
3. 4550'-4350'

If they recover 9 5/8' casing 4th plug will be:

4. 200' Top of Cut off of 9 5/8" casing
5. 200' top of Shoe of 13 5/8" casing

If they do not recover the 9 5/8 " casing

4. plug annules between 13 3/8" & 9 5/8" casing
5. 10 Sacks to surface set dry hole marker

DATE 2-22-82

SIGNED DB

This is an U.S.G.S. approved program given by Bill Martins



STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

February 24, 1982

Chandler & Associates
1401 Denver Club Bldg.
Denver, Colorado 80202

Re: Well No. Moab Federal #16-9
Sec. 9, T. 25S, R. 20E
Grand County, Utah

Gentlemen:

This letter is to advise you that the Well Completion or Recompletion Report and Log for the above mentioned well is due and has not been filed with this office as required by our rules and regulations.

Please complete the enclosed Form OGC-3, in duplicate, and forward them to this office as soon as possible.

Thank you for your cooperation relative to the above.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

Cari Furse
Clerk Typist

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well ☒ gas well ☐ other

2. NAME OF OPERATOR
Chandler & Associates, Inc.

3. ADDRESS OF OPERATOR
1401 Denver Club Bldg., Denver, Colorado 80202

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 388' FSL; 547' FEL (SE SE)
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH: 9,968'

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) ☐

SUBSEQUENT REPORT OF:

☐
☐
☐
☐
☐
☐
☐
☐
☒

5. LEASE
USA U-24550

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Moab Federal

9. WELL NO.
16-9

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 9-25S-20E

12. COUNTY OR PARISH | 13. STATE
Grand | Utah

14. API NO.
43-019-30910

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4996' GR

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Verbal approval was received from W.P. Martens of the U.S. Geological Survey to plug the well as follows on 2-28-82.

Plug #1	9550-9350	107 sx
#2	7200-6900	133 sx
#3	4550-4350	120 sx
#4	1470-1270	113 sx
#5	600-400	152 sx
#6	Surface	15 sx

Mud laden fluid between plugs. Location will be restored as per approved plan.
RIG RELEASED 2:00 PM 2-28-82.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED James W. Rowland TITLE Petroleum Engineer DATE 3-5-82

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY: _____

2
COMPANY CHANDLER & ASSOCIATESWELL MOAB FEDERAL #16-9 TEST NO. 4 COUNTY GRAND STATE UTAH
INC.

JOHNSTON-MACCO

Schlumberger

technical report

RECEIVED

MAR 08 1982

**DIVISION OF
OIL, GAS & MINING**

FIELD REPORT #42727 E

JOHNSTON

Schlumberger

SUMMARY

MARCH 4, 1982

GENTLEMEN:

ENCLOSED ARE THE RESULTS OF THE M.F.E. STRADDLE OPEN HOLE DRILL STEM TEST #4 ON MOAB FEDERAL #16-9, TESTED 2-25-82.

HOLE DATA: THE WELL HAD BEEN DRILLED TO A TOTAL DEPTH OF 9968 FT., AND THE TESTED INTERVAL WAS 9795 FT. TO 9845 FT. THE BOTTOMHOLE TEMPERATURE RECORDED AT 9806 FT. WAS 145°F.

FORMATION DATA: THE FORMATION TESTED WAS THE LEADVILLE, WITH A GIVEN POROSITY OF 10%, AND 12 FT. THICKNESS.

SAMPLE CHAMBER CONTENTS: THE CHAMBER CONTAINED 2400 C.C. WATER.

RECOVERY DATA: RECOVERED WERE 1530 FT. WATER CUT DRILLING MUD, AND 780 FT. BLACK WATER.

CHANDLER & ASSOCIATES, INC.
MOAB FEDERAL #16-9; GRAND COUNTY
UTAH; SEC. 9 T25S R20E

FIELD REPORT NO.: 42727 E

In making any interpretation, our employees will give Customer the benefit of their best judgment as to the correct interpretation. Nevertheless, since all interpretations are opinions based on inferences from electrical, mechanical or other measurements, we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not be liable or responsible, except in the case of gross or wilful negligence on our part, for any loss, costs, damages or expenses incurred or sustained by Customer resulting from any interpretation made by any of our agents or employees.

* TEST TICKET DATA PRINTOUT *

WELL IDENTIFICATION

1. WELL	:	MOAB FEDERAL #16-9
2. COMPANY	:	CHANDLER & ASSOCIATES, INC.
3.	:	1401 DENVER CLUB BUILDING
4.	:	DENVER, COLORADO 80202
5. CUSTOMER	:	SAME
6.	:	
7.	:	
8. FIELD	:	WILDCAT
9. COUNTY	:	GRAND
10. STATE/PROV.	:	UTAH
11. LOCATION	:	SEC. 9, T25S R20E
12. TECHNICIAN	:	CRUMB (VERNAL)
13. TEST APPROVED BY	:	MR. B.F. LATCH
14. TEST DATE	:	02-25-82
15. DEPTH REFERENCE	:	KELLY BUSHING
16. DEPTH REFERENCE ELEVATION	:	S.L. 4991. FT

HOLE INFORMATION

1. THE HOLE IS STRAIGHT.	
2. TOTAL DEPTH	: 9968. FT
3. OPEN HOLE DIAMETER	: 8.75 IN

MUD INFORMATION

1. MUD TYPE	:	SALT
2. MUD WEIGHT	:	10.4 LB/GAL
3. MUD VISCOSITY	:	44 - 45 MARSH-FUNNEL SEC
4. CORRECTED WATER LOSS	:	6 - 7 CC/30 MIN
5. MUD RESISTIVITY	:	0.14 OHM-M
6. MUD RES. MEAS. TEMP.	:	46.0 DEG F
7. MUD FILTRATE RESISTIVITY	:	0.09 OHM-M
8. MUD FILT. RES. MEAS. TEMP.	:	46.0 DEG F
9. MUD CHLORIDES CONTENT	:	287000.0 PPM BY WEIGHT

 * TEST TICKET DATA PRINTOUT *

TEST INFORMATION

1. FIELD REPORT NUMBER : 42727E
 2. TEST TYPE : M.F.E. STRADDLE OPEN HOLE
 3. TEST NUMBER : 4
 4. TELEFLOW IN USE ? : NO
 5. SSDR OR J-300 IN USE ? : NO
 6. SPRO IN USE ? : NO
 7. PTSDL IN USE ? : NO

TEST STRING INFORMATION

#	COMPONENT NAME	EFFECTIVE		FLOW PATH
		I.D. (IN)	O.D. (IN)	LENGTH (FT)
1	DRILL PIPE	3.80	4.50	9090.
2	DRILL COLLARS	2.25	6.75	662.
3	TEST TOOL STRING	0.93	5.00	216.

TEST STRING PLACEMENT

1. TEST TYPE CODE 2 - OFF BOTTOM
 2. PACKER DEPTHS : 9790. FT & 9795. FT
 3. PACKER DEPTHS : 9845. FT & 9850. FT

TEST ZONE DESCRIPTION

FORMATION NAME	PRODUCTION ZONE			POROSITY (%)
	TOP (FT)	BOTTOM (FT)	THICKNESS (FT)	
LEADVILLE			12.	10.

TEST CONDITIONS

1. BOTTOMHOLE CHOKE(S) EFF. INTERNAL DIA. : 0.93 IN

FIELD REPORT NO. 42727E

 * TEST TICKET DATA PRINTOUT *

TEST TOOL SAMPLE CHAMBER RECOVERY DATA

SAMPLE PRESSURE : PSIG
 OIL GRAVITY : DEG. API @ DEG F
 GAS/OIL RATIO : FT3/BBL
 GAS/LIQUID RATIO : FT3/BBL

SAMPLE CHAMBER CONTENTS

FLUID	VOLUME	RESISTIVITY	CHLORIDES
GAS	FT3		
OIL	CC		
WATER	2400.0 CC	0.07 OHM-M @ 48.0 DEG F	170000. PPM
MUD	CC	OHM-M @ DEG F	
TOTAL LIQUID	2400.0 CC		

RECOVERY INFORMATION

DESCRIPTION	FEET	% OIL	% H2O	% MUD	API DEG.	RESISTIVITY OHM-M	DEG.F	CHL PPM
1 WATER CUT DRILLING MUD	1530		50	50		0.06	46	192000.
2 BLACK WATER	780		100			0.07	48	170000.

SURFACE INFORMATION

DESCRIPTION	TIME	PRESSURE	CHOKESIZE
1 SET PACKER (02-25-82)	2027	-	-
2 OPENED TOOL	2029	1.00 0Z	1/4"
3	2036	2.50 "	"
4 ATTEMPTED TO CLOSE TOOL	2045	3.00 "	"
5	2154	2.00 "	"
6	2204	3.00 "	"
7	2215	3.50 "	"
8	2240	2.00 "	"
9 CLOSED FOR FINAL SHUT-IN	2249	2.00 "	"
10 FINISHED SHUT-IN (02-26-82)	0048	-	"
11 PULLED PACKER LOOSE	0049	-	-

BOTTOM HOLE PRESSURE AND TIME DATA

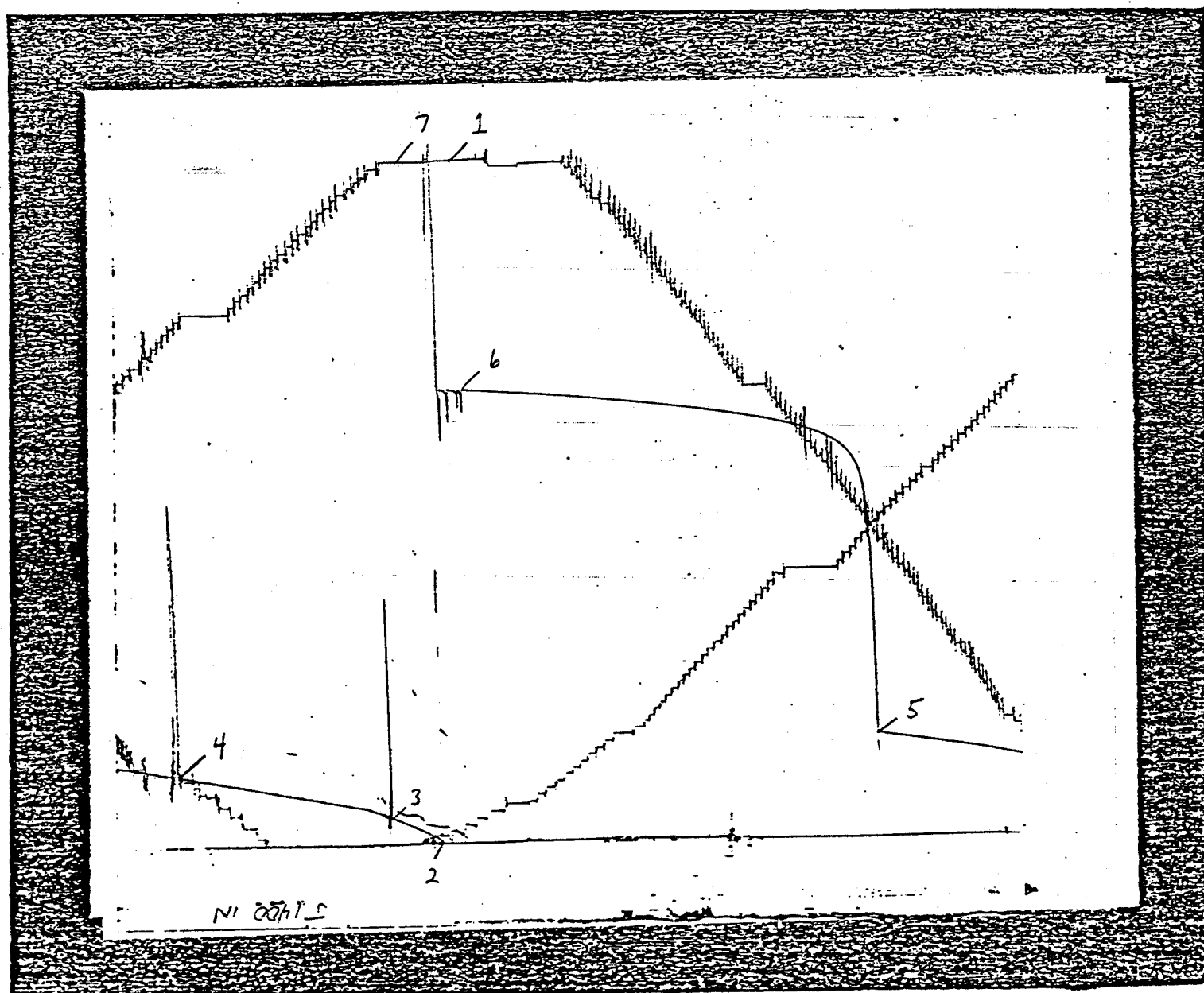


INSTRUMENT NUMBER J-1400		CAPACITY (P.S.I.) 6400 P.S.I.	DEPTH 9778'
PORT OPENING INSIDE		BOTTOM HOLE TEMPERATURE 145°F.	FIELD REPORT NUMBER 42727 E

DESCRIPTION	LABELED POINTS	PRESSURE (PSIA)	GIVEN TIME	COMPUTED TIME
INITIAL HYDROSTATIC MUD	1	5572		
INITIAL FLOW (1)	2	51		
INITIAL FLOW (2)	5	877		
INITIAL SHUT-IN				
SECOND FLOW (1)				
SECOND FLOW (2)				
SECOND SHUT-IN				
FINAL FLOW (1)				
FINAL FLOW (2)				
FINAL SHUT-IN	6	3703		
FINAL HYDROSTATIC MUD	7	5561		

REMARKS:

ATTEMPTED TO CLOSE TOOL 3
CYCLE TOOL 4

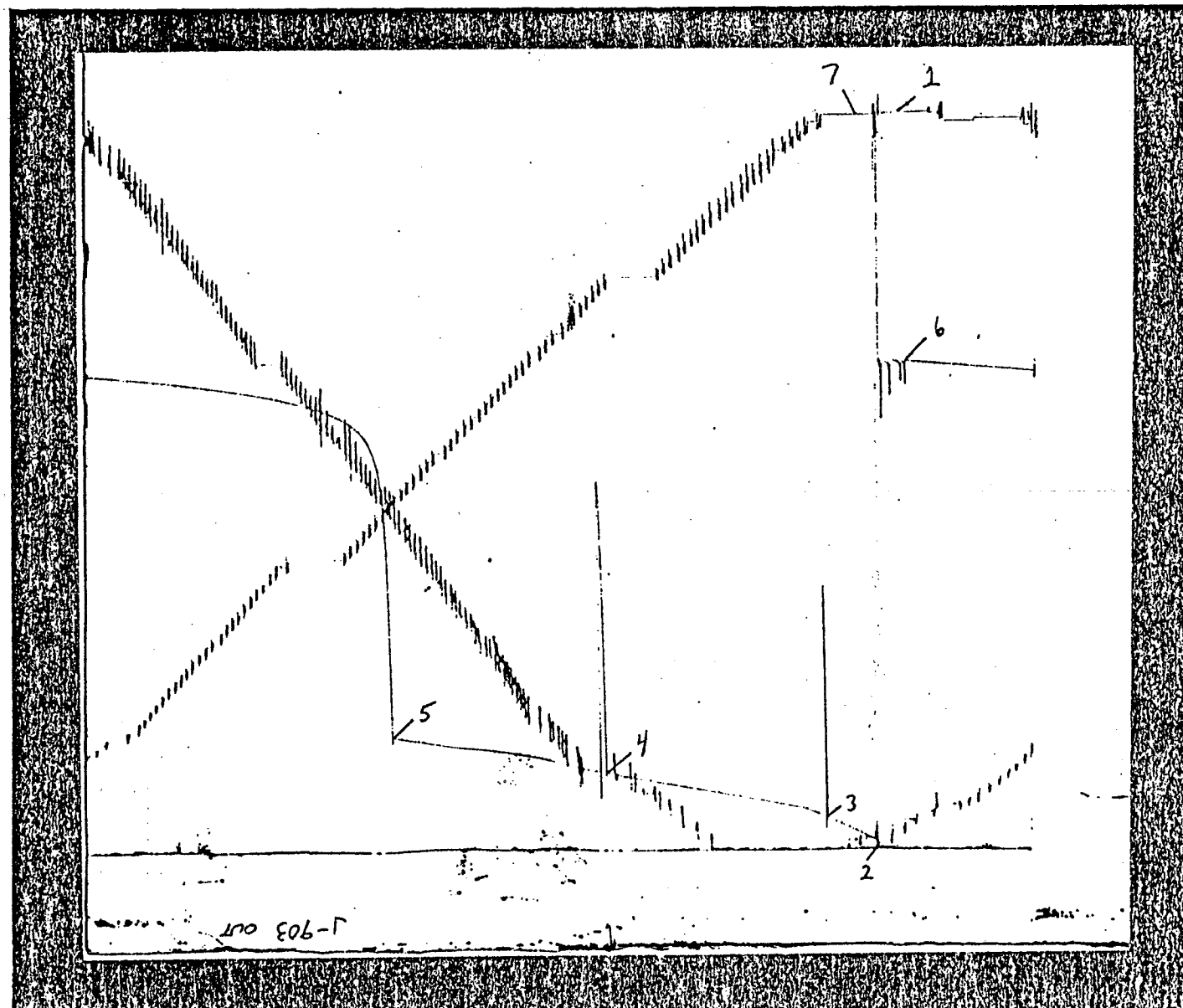


FIELD REPORT NO.: 42727 E

CAPACITY: 6400#

INSTRUMENT NO.: J-903

NUMBER OF REPORTS: 16



BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 42727E

COMPANY : CHANDLER & ASSOCIATES, INC.

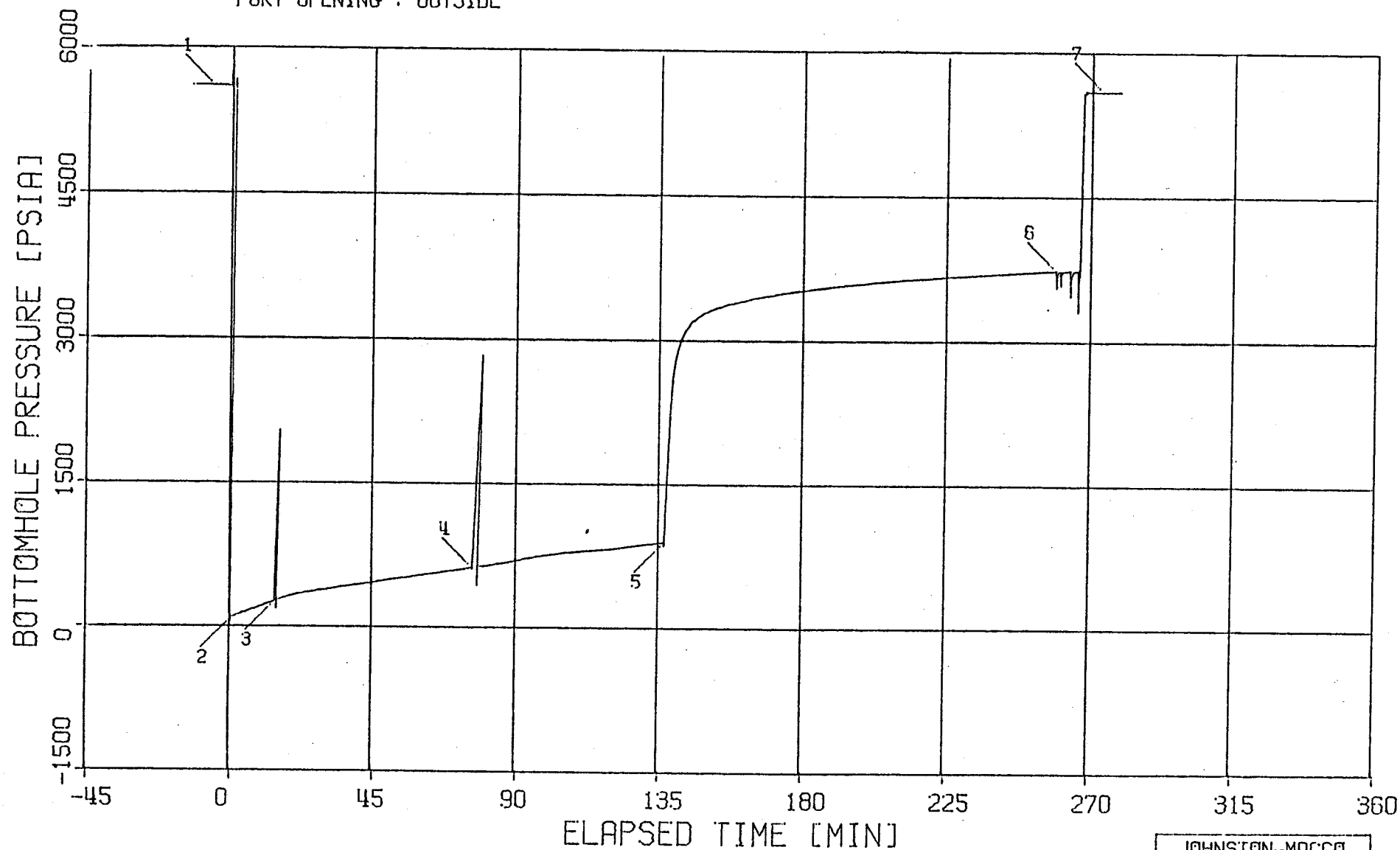
INSTRUMENT NO. J-903

WELL : MOAB FEDERAL #16-9

DEPTH : 9806 FT

CAPACITY : 6400 PSI

PORT OPENING : OUTSIDE



JOHNSTON-MACCO
SCHLUMBERGER

 * WELL TEST DATA PRINTOUT *

FIELD REPORT # : 42727E

COMPANY : CHANDLER & ASSOCIATES, INC.
 WELL : MOAB FEDERAL #16-9

INSTRUMENT # : J-903
 CAPACITY [PSI] : 6400.
 DEPTH [FT] : 9806.0
 PORT OPENING : OUTSIDE
 TEMPERATURE [DEG F] : 145.0

LABEL POINT INFORMATION

TIME	BOT HOLE
OF DAY DATE	ELAPSED PRESSURE
# HH:MM:SS DD-MM	EXPLANATION TIME-MIN PSIA
*** *****	*****
1 20:22:44 25-FB	HYDROSTATIC MUD -6.26 5613
2 20:29: 0 25-FB	START FLOW 0.00 91
3 20:42:56 25-FB	ATTEMPTED TO CLOSE TOOL 13.94 269
4 21:45: 0 25-FB	CYCLED TOOL 76.00 622
5 22:45:30 25-FB	END FLOW & START SHUT-IN 136.50 893
6 0:48: 0 26-FB	END SHUT-IN 259.00 3732
7 1: 2:12 26-FB	HYDROSTATIC MUD 273.20 5600

SUMMARY OF FLOW PERIODS

START	END	DURATION	START	END
ELAPSED	ELAPSED		PRESSURE	PRESSURE
PERIOD TIME,MIN	TIME,MIN	MIN	PSIA	PSIA
*****	*****	*****	*****	*****
1 0.00	136.50	136.50	91	893

SUMMARY OF SHUTIN PERIODS

START	END	DURATION	START	END	FINAL FLOW	PRODUCING
ELAPSED	ELAPSED		PRESSURE	PRESSURE	PRESSURE	TIME, MIN
PERIOD TIME,MIN	TIME,MIN	MIN	PSIA	PSIA	PSIA	
*****	*****	*****	*****	*****	*****	*****
1 136.50	259.00	122.50	893	3732	893	136.50

TEST PHASE : FLOW PERIOD # 1

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE PRESSURE PSIA
20:29: 0	25-FB	0.00	0.00	91
20:34: 0	25-FB	5.00	5.00	160
20:39: 0	25-FB	10.00	10.00	223
20:44: 0	25-FB	15.00	15.00	1589
20:49: 0	25-FB	20.00	20.00	335
20:54: 0	25-FB	25.00	25.00	368
20:59: 0	25-FB	30.00	30.00	394
21: 4: 0	25-FB	35.00	35.00	420
21: 9: 0	25-FB	40.00	40.00	445
21:14: 0	25-FB	45.00	45.00	471
21:19: 0	25-FB	50.00	50.00	496
21:24: 0	25-FB	55.00	55.00	520
21:29: 0	25-FB	60.00	60.00	545
21:34: 0	25-FB	65.00	65.00	569
21:39: 0	25-FB	70.00	70.00	594
21:44: 0	25-FB	75.00	75.00	618
21:49: 0	25-FB	80.00	80.00	639
21:54: 0	25-FB	85.00	85.00	668
21:59: 0	25-FB	90.00	90.00	700
22: 4: 0	25-FB	95.00	95.00	731
22: 9: 0	25-FB	100.00	100.00	756
22:14: 0	25-FB	105.00	105.00	778
22:19: 0	25-FB	110.00	110.00	795
22:24: 0	25-FB	115.00	115.00	808
22:29: 0	25-FB	120.00	120.00	823
22:34: 0	25-FB	125.00	125.00	846
22:39: 0	25-FB	130.00	130.00	868
22:44: 0	25-FB	135.00	135.00	888
22:45:30	25-FB	136.50	136.50	893

TEST PHASE : SHUTIN PERIOD # 1

FINAL FLOW PRESSURE [PSIA] = 893

PRODUCING TIME [MIN] = 136.50

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
22:45:30	25-FB	136.50	0.00	893	0	
22:46:30	25-FB	137.50	1.00	1641	747	2.138
22:47:30	25-FB	138.50	2.00	2359	1465	1.840
22:48:30	25-FB	139.50	3.00	2707	1814	1.667
22:49:30	25-FB	140.50	4.00	2884	1991	1.546
22:50:30	25-FB	141.50	5.00	2993	2100	1.452
22:51:30	25-FB	142.50	6.00	3069	2175	1.376
22:52:30	25-FB	143.50	7.00	3120	2226	1.312
22:53:30	25-FB	144.50	8.00	3163	2270	1.257

TEST PHASE : SHUTIN PERIOD # 1

FINAL FLOW PRESSURE [PSIA] = 893

PRODUCING TIME [MIN] = 136.50

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
22:54:30	25-FB	145.50	9.00	3195	2302	1.209
22:55:30	25-FB	146.50	10.00	3224	2330	1.166
22:57:30	25-FB	148.50	12.00	3268	2374	1.093
22:59:30	25-FB	150.50	14.00	3297	2404	1.031
23: 1:30	25-FB	152.50	16.00	3325	2432	0.979
23: 3:30	25-FB	154.50	18.00	3346	2453	0.934
23: 5:30	25-FB	156.50	20.00	3366	2473	0.893
23: 7:30	25-FB	158.50	22.00	3383	2489	0.858
23: 9:30	25-FB	160.50	24.00	3399	2505	0.825
23:11:30	25-FB	162.50	26.00	3414	2520	0.796
23:13:30	25-FB	164.50	28.00	3429	2535	0.769
23:15:30	25-FB	166.50	30.00	3442	2549	0.744
23:20:30	25-FB	171.50	35.00	3473	2579	0.690
23:25:30	25-FB	176.50	40.00	3498	2604	0.645
23:30:30	25-FB	181.50	45.00	3519	2626	0.606
23:35:30	25-FB	186.50	50.00	3539	2646	0.572
23:40:30	25-FB	191.50	55.00	3559	2665	0.542
23:45:30	25-FB	196.50	60.00	3579	2685	0.515
23:50:30	25-FB	201.50	65.00	3595	2702	0.491
23:55:30	25-FB	206.50	70.00	3611	2718	0.470
0: 0:30	26-FB	211.50	75.00	3625	2732	0.450
0: 5:30	26-FB	216.50	80.00	3637	2744	0.432
0:10:30	26-FB	221.50	85.00	3649	2756	0.416
0:15:30	26-FB	226.50	90.00	3662	2768	0.401
0:20:30	26-FB	231.50	95.00	3674	2781	0.387
0:25:30	26-FB	236.50	100.00	3686	2792	0.374
0:30:30	26-FB	241.50	105.00	3697	2804	0.362
0:35:30	26-FB	246.50	110.00	3708	2815	0.350
0:40:30	26-FB	251.50	115.00	3718	2825	0.340
0:45:30	26-FB	256.50	120.00	3728	2834	0.330
0:48: 0	26-FB	259.00	122.50	3732	2838	0.325

BOTTOM HOLE PRESSURE AND TIME DATA

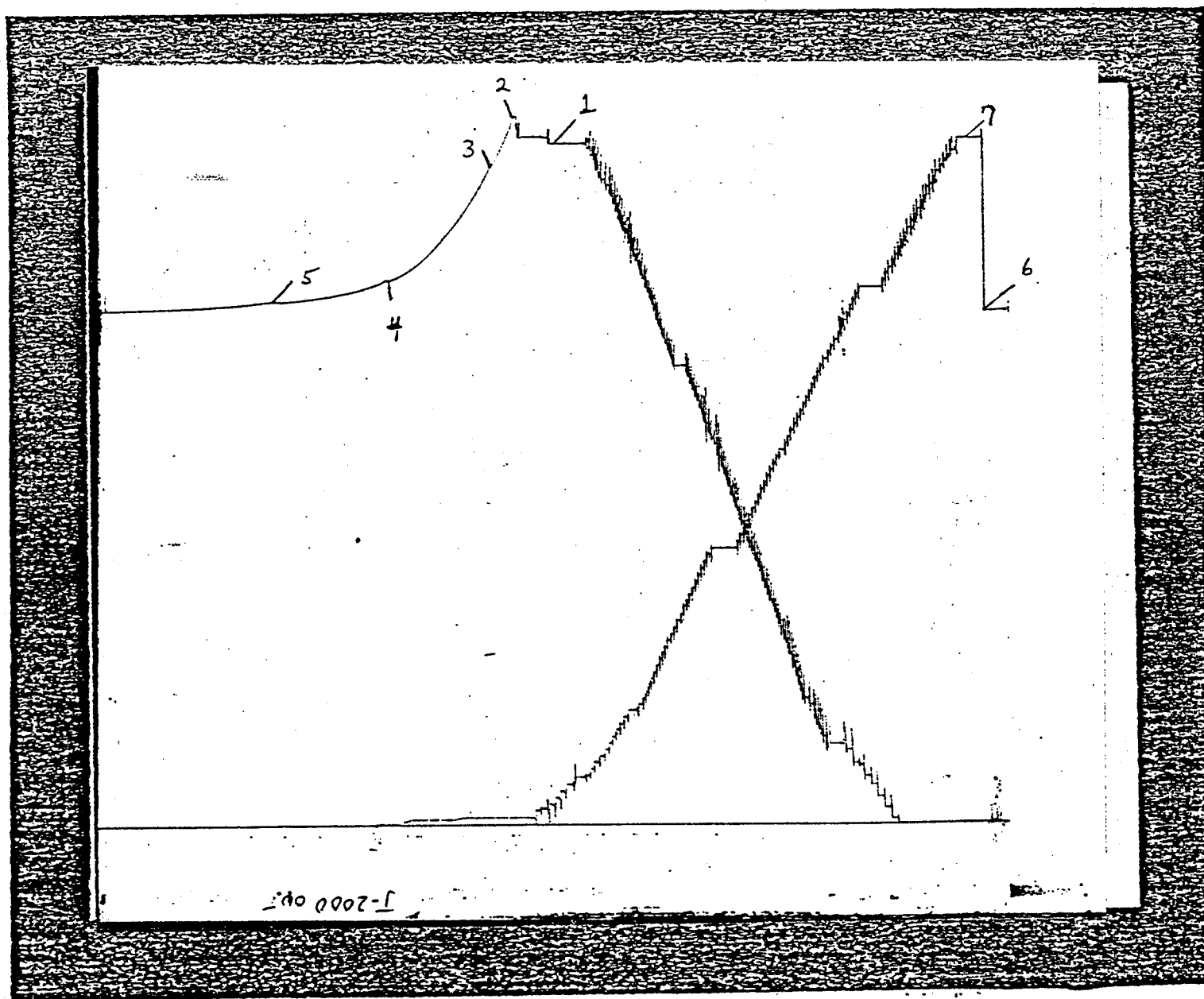


INSTRUMENT NUMBER J-2000	CAPACITY (P.S.I.) 6400 P.S.I.	DEPTH 9865'
PORT OPENING OUTSIDE	BOTTOM HOLE TEMPERATURE 145°F.	FIELD REPORT NUMBER 42727 E

DESCRIPTION	LABELED POINTS	PRESSURE (PSIA)	GIVEN TIME	COMPUTED TIME
INITIAL HYDROSTATIC MUD	1	5579		
INITIAL FLOW (1)	2	5798		
INITIAL FLOW (2)	5	4281		
INITIAL SHUT-IN				
SECOND FLOW (1)				
SECOND FLOW (2)				
SECOND SHUT-IN				
FINAL FLOW (1)				
FINAL FLOW (2)				
FINAL SHUT-IN	6	4202		
FINAL HYDROSTATIC MUD	7	5617		

REMARKS:
 ATTEMPTED TO CLOSE TOOL 3
 CYCLE TOOL 4

INSTRUMENT RUN BELOW STRADDLE



JOHNSTON-MACCO

Schlumberger

technical
report

FIELD REPORT #42737 E

COMPANY CHANDLER & ASSOCIATESWELL MOAB FEDERAL #16-9 TEST NO. 2 COUNTY GRAND STATE UTAH
INC.

* TEST TICKET DATA PRINTOUT *

WELL IDENTIFICATION

1. WELL	: MOAB FEDERAL #16-9
2. COMPANY	: CHANDLER & ASSOCIATES, INC.
3.	: 1401 DENVER CLUB BUILDING
4.	: DENVER, COLORADO 80202
5. CUSTOMER	: SAME
6.	:
7.	:
8. FIELD	: WILDCAT
9. COUNTY	: GRAND
10. STATE/PROV.	: UTAH
11. LOCATION	: SEC. 9, T25S R20E
12. TECHNICIAN	: TORGENSON (VERNAL)
13. TEST APPROVED BY	: MR. BOB LAFFERTY
14. TEST DATE	: 02-14-82
15. DEPTH REFERENCE	: KELLY BUSHING
16. DEPTH REFERENCE ELEVATION	: S.L. 5005. FT

HOLE INFORMATION

1. THE HOLE IS STRAIGHT.	
2. TOTAL DEPTH	: 8574. FT
3. OPEN HOLE DIAMETER	: 8.75 IN

MUD INFORMATION

1. MUD TYPE	: SALT SATURATED
2. MUD WEIGHT	: 10.8 LB/GAL
3. MUD VISCOSITY	: 40 - 42 MARSH FUNNEL SEC
4. CORRECTED WATER LOSS	: 8 - 10 CC/30 MIN
5. MUD RESISTIVITY	: 0.04 OHM-M
6. MUD RES. MEAS. TEMP.	: 60.0 DEG F
7. MUD FILTRATE RESISTIVITY	: 0.04 OHM-M
8. MUD FILT. RES. MEAS. TEMP.	: 58.0 DEG F
9. MUD CHLORIDES CONTENT	: 180000.0 PPM BY WEIGHT

 * TEST TICKET DATA PRINTOUT *

TEST INFORMATION

1. FIELD REPORT NUMBER : 42737E
 2. TEST TYPE : M.F.E. OPEN HOLE
 3. TEST NUMBER : 2
 4. TELEFLOW IN USE ? : NO
 5. SSDR OR J-300 IN USE ? : NO
 6. SPRO IN USE ? : NO
 7. PTSDL IN USE ? : NO

TEST STRING INFORMATION

#	COMPONENT NAME	EFFECTIVE		FLOW PATH LENGTH (FT)
		I.D. (IN)	O.D. (IN)	
1	DRILL PIPE	3.80	4.50	7644.
2	DRILL COLLARS	2.25	6.25	787.
3	TEST TOOL STRING	0.93	5.00	143.

TEST STRING PLACEMENT

1. TEST TYPE CODE 1 -- ON BOTTOM
 2. PACKER DEPTHS : 8468. FT & 8473. FT

TEST ZONE DESCRIPTION

FORMATION NAME	TOP (FT)	BOTTOM (FT)	PRODUCTION ZONE	
			THICKNESS (FT)	POROSITY (%)
CANE CREEK			10.	15.

TEST CONDITIONS

1. BOTTOMHOLE CHOKE(S) EFF. INTERNAL DIA. : 0.93 IN

 * TEST TICKET DATA PRINTOUT *

TEST TOOL SAMPLE CHAMBER RECOVERY DATA

SAMPLE PRESSURE : 85. PSIG
 OIL GRAVITY : DEG. API @ DEG F
 GAS/OIL RATIO : FT3/BBL
 GAS/LIQUID RATIO : FT3/BBL

SAMPLE CHAMBER CONTENTS

FLUID	VOLUME	RESISTIVITY	CHLORIDES
GAS	0.23 FT3		
OIL	CC		
WATER	CC	OHM-M @ DEG F	PPM
MUD	1800.0 CC	0.06 OHM-M @ 60.0 DEG F	143000 PPM
TOTAL LIQUID	1800.0 CC		

RECOVERY INFORMATION

DESCRIPTION	FEET	% OIL	% H2O	OTH	API DEG.	RESISTIVITY OHM-M DEG.F	CHL PPM
1 SLIGHTLY GAS & OIL CUT DRILLING MUD	150	1				0.04 58	174000.

SURFACE INFORMATION

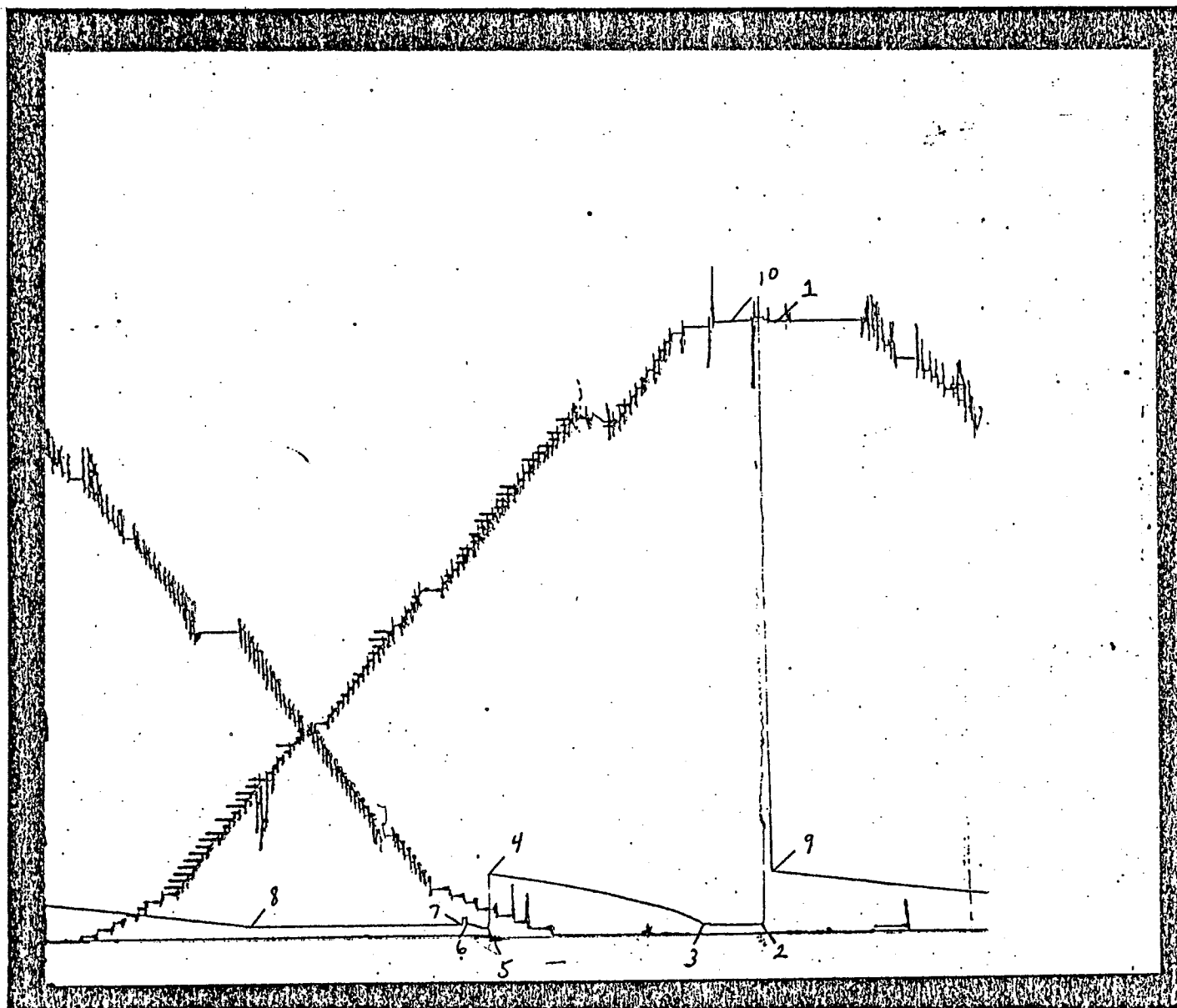
DESCRIPTION	TIME	PRESSURE	CHOKE SIZE
1 SET PACKER	0140	-	-
2 OPENED TOOL	0143	-	3/4"
3	0150	2.25	"
4	0155	2.50	"
5 CLOSED FOR INITIAL SHUT-IN	0200	-	"
6 FINISHED SHUT-IN	0307	-	"
7 RE-OPENED TOOL	0310	-	"
8	0312	1.50	"
9	0320	1.75	"
10	0330	1.75	"
11	0345	1.00	"
12	0400	0.50	"
13 CLOSED FOR FINAL SHUT-IN	0410	-	"
14 FINISHED SHUT-IN	0610	-	"
15 PULLED PACKER LOOSE	0611	-	-

FIELD REPORT NO.: 42737 E

CAPACITY: 6400#

INSTRUMENT NO.: J-1401

NUMBER OF REPORTS: 16



BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 42737E

COMPANY : CHANDLER & ASSOCIATES, INC.

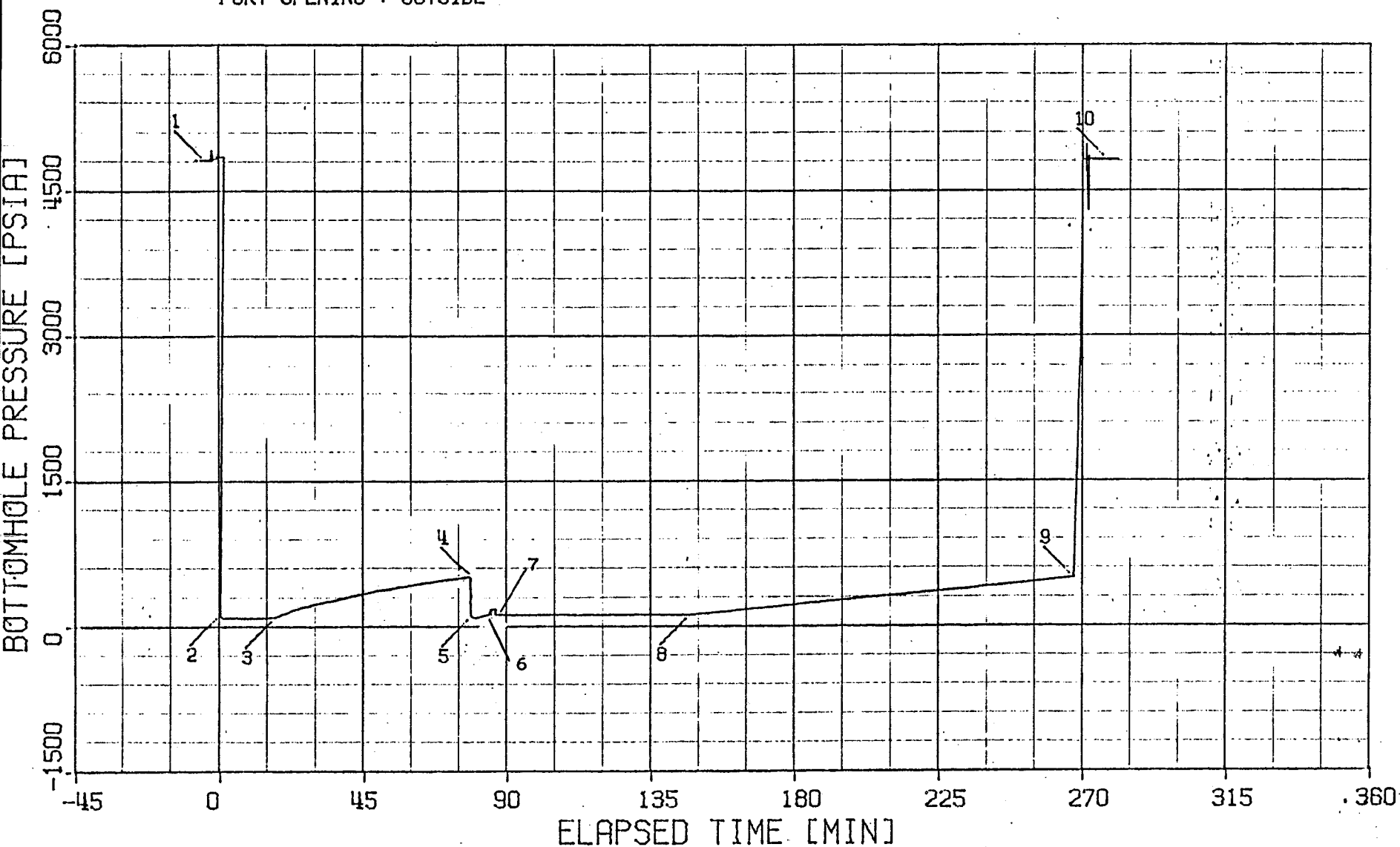
INSTRUMENT NO. J-1401

WELL : MOAB FEDERAL #16-9

DEPTH : 8480 FT

CAPACITY : 6400 PSI

PORT OPENING : OUTSIDE



 * WELL TEST DATA PRINTOUT *

FIELD REPORT # : 42737E

COMPANY : CHANDLER & ASSOCIATES, INC.
 WELL : MOAB FEDERAL #16-9

INSTRUMENT# : J-1401
 CAPACITY [PSI] : 6400.
 DEPTH [FT] : 8480.0
 PORT OPENING : OUTSIDE
 TEMPERATURE [DEG F] : 125.0

LABEL POINT INFORMATION

#	TIME OF DAY	DATE	EXPLANATION	ELAPSED TIME, MIN	BOT HOLE PRESSURE PSIA
1	1:38:22	14-FB	HYDROSTATIC MUD	-4.64	4817
2	1:43: 0	14-FB	START FLOW	0.00	136
3	2: 0:10	14-FB	END FLOW & START SHUT-IN	17.16	100
4	3: 1:21	14-FB	END SHUT-IN	78.35	510
5	3: 1:39	14-FB	START FLOW	78.65	108
6	3: 7:50	14-FB	CYCLED TOOL	84.83	126
7	3: 9:18	14-FB	RE-OPENED TOOL	86.30	122
8	4:10: 1	14-FB	END FLOW & START SHUT-IN	147.02	118
9	6:10: 0	14-FB	END SHUT-IN	267.00	500
10	6:20:26	14-FB	HYDROSTATIC MUD	277.44	4820

SUMMARY OF FLOW PERIODS

PERIOD	START ELAPSED TIME, MIN	END ELAPSED TIME, MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA
1	0.00	17.16	17.16	136	100
2	78.65	147.02	68.37	108	118

SUMMARY OF SHUTIN PERIODS

PERIOD	START ELAPSED TIME, MIN	END ELAPSED TIME, MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA	FINAL FLOW PRESSURE PSIA	PRODUCING TIME, MIN
1	17.16	78.35	61.19	100	510	100	17.16
2	147.02	267.00	119.98	118	500	118	85.53

TEST PHASE : FLOW PERIOD # 1

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE PRESSURE PSIA
1:43:00	14-FB	0.00	0.00	136
1:48:00	14-FB	5.00	5.00	91
1:53:00	14-FB	10.00	10.00	92
1:58:00	14-FB	15.00	15.00	95
2:00:10	14-FB	17.16	17.16	100

TEST PHASE : SHUTIN PERIOD # 1

FINAL FLOW PRESSURE [PSIA] = 100

PRODUCING TIME [MIN] = 17.16

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
2:00:10	14-FB	17.16	0.00	100	0	
2:01:10	14-FB	18.16	1.00	115	14	1.259
2:02:10	14-FB	19.16	2.00	129	28	0.981
2:03:10	14-FB	20.16	3.00	141	41	0.827
2:04:10	14-FB	21.16	4.00	154	53	0.723
2:05:10	14-FB	22.16	5.00	166	66	0.647
2:06:10	14-FB	23.16	6.00	178	77	0.587
2:07:10	14-FB	24.16	7.00	188	88	0.538
2:08:10	14-FB	25.16	8.00	198	98	0.498
2:09:10	14-FB	26.16	9.00	208	108	0.463
2:10:10	14-FB	27.16	10.00	217	116	0.434
2:12:10	14-FB	29.16	12.00	233	133	0.386
2:14:10	14-FB	31.16	14.00	248	147	0.347
2:16:10	14-FB	33.16	16.00	262	161	0.316
2:18:10	14-FB	35.16	18.00	275	175	0.291
2:20:10	14-FB	37.16	20.00	289	188	0.269
2:22:10	14-FB	39.16	22.00	303	202	0.250
2:24:10	14-FB	41.16	24.00	317	217	0.234
2:26:10	14-FB	43.16	26.00	331	231	0.220
2:28:10	14-FB	45.16	28.00	344	244	0.208
2:30:10	14-FB	47.16	30.00	357	256	0.196
2:35:10	14-FB	52.16	35.00	387	286	0.173
2:40:10	14-FB	57.16	40.00	414	314	0.155
2:45:10	14-FB	62.16	45.00	440	339	0.140
2:50:10	14-FB	67.16	50.00	464	363	0.128
2:55:10	14-FB	72.16	55.00	485	385	0.118
3:00:10	14-FB	77.16	60.00	506	405	0.109
3:01:21	14-FB	78.35	61.19	510	410	0.107

TEST PHASE : FLOW PERIOD # 2

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE PRESSURE PSIA
3: 1:39	14-FB	78.65	0.00	108
3: 6:39	14-FB	83.65	5.00	117
3:11:39	14-FB	88.65	10.00	117
3:16:39	14-FB	93.65	15.00	117
3:21:39	14-FB	98.65	20.00	117
3:26:39	14-FB	103.65	25.00	117
3:31:39	14-FB	108.65	30.00	117
3:36:39	14-FB	113.65	35.00	117
3:41:39	14-FB	118.65	40.00	117
3:46:39	14-FB	123.65	45.00	117
3:51:39	14-FB	128.65	50.00	117
3:56:39	14-FB	133.65	55.00	118
4: 1:39	14-FB	138.65	60.00	118
4: 6:39	14-FB	143.65	65.00	118
4:10: 1	14-FB	147.02	68.37	118

TEST PHASE : SHUTIN PERIOD # 2

FINAL FLOW PRESSURE [PSIA] = 118

PRODUCING TIME [MIN] = 85.53

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
4:10: 1	14-FB	147.02	0.00	118	0	
4:11: 1	14-FB	148.02	1.00	122	4	1.937
4:12: 1	14-FB	149.02	2.00	126	8	1.641
4:13: 1	14-FB	150.02	3.00	130	13	1.470
4:14: 1	14-FB	151.02	4.00	134	16	1.350
4:15: 1	14-FB	152.02	5.00	137	19	1.258
4:16: 1	14-FB	153.02	6.00	140	22	1.183
4:17: 1	14-FB	154.02	7.00	143	25	1.121
4:18: 1	14-FB	155.02	8.00	146	29	1.068
4:19: 1	14-FB	156.02	9.00	150	32	1.021
4:20: 1	14-FB	157.02	10.00	153	35	0.980
4:22: 1	14-FB	159.02	12.00	159	41	0.910
4:24: 1	14-FB	161.02	14.00	165	48	0.852
4:26: 1	14-FB	163.02	16.00	171	54	0.802
4:28: 1	14-FB	165.02	18.00	178	61	0.760
4:30: 1	14-FB	167.02	20.00	185	68	0.722
4:32: 1	14-FB	169.02	22.00	191	74	0.689
4:34: 1	14-FB	171.02	24.00	198	80	0.659
4:36: 1	14-FB	173.02	26.00	204	88	0.632
4:38: 1	14-FB	175.02	28.00	211	93	0.608
4:40: 1	14-FB	177.02	30.00	217	100	0.586
4:45: 1	14-FB	182.02	35.00	233	116	0.537
4:50: 1	14-FB	187.02	40.00	249	132	0.497

TEST PHASE : SHUTIN PERIOD # 2

FINAL FLOW PRESSURE [PSIA] = 118

PRODUCING TIME [MIN] = 85.53

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
*****	*****	*****	*****	*****	*****	*****
4:55: 1	14-FB	192.02	45.00	265	- 148	0.462
5: 0: 1	14-FB	197.02	50.00	280	162	0.433
5: 5: 1	14-FB	202.02	55.00	295	178	0.407
5:10: 1	14-FB	207.02	60.00	312	194	0.385
5:15: 1	14-FB	212.02	65.00	327	209	0.365
5:20: 1	14-FB	217.02	70.00	341	223	0.347
5:25: 1	14-FB	222.02	75.00	356	239	0.330
5:30: 1	14-FB	227.02	80.00	371	254	0.316
5:35: 1	14-FB	232.02	85.00	387	269	0.302
5:40: 1	14-FB	237.02	90.00	404	287	0.290
5:45: 1	14-FB	242.02	95.00	421	303	0.279
5:50: 1	14-FB	247.02	100.00	437	319	0.268
5:55: 1	14-FB	252.02	105.00	453	336	0.259
6: 0: 1	14-FB	257.02	110.00	470	352	0.250
6: 5: 1	14-FB	262.02	115.00	486	368	0.241
6:10: 0	14-FB	267.00	119.98	500	382	0.234

JOHNSTON-MACCO

Schlumberger

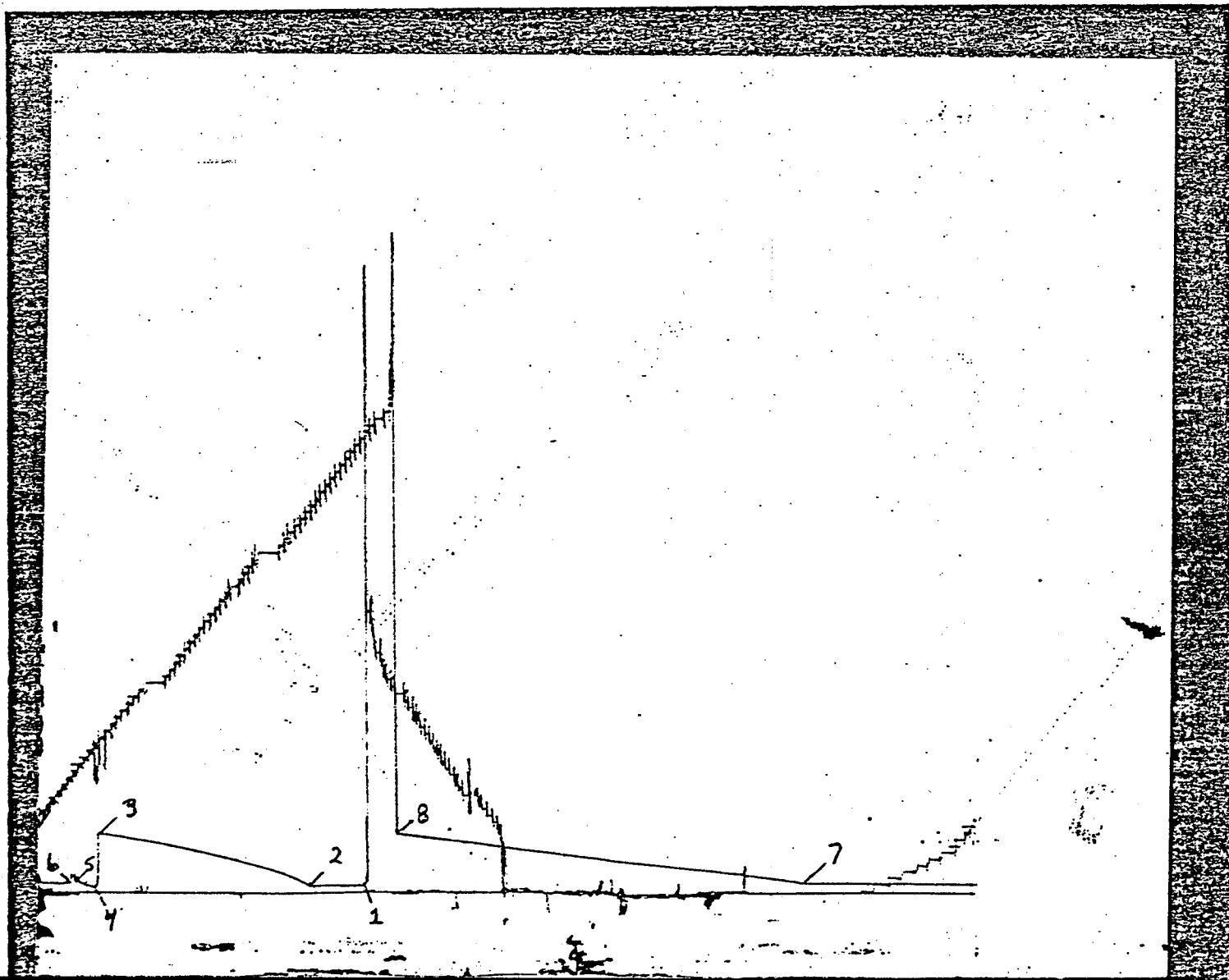
BOTTOM HOLE PRESSURE AND TIME DATA

INSTRUMENT NUMBER J-1400	CAPACITY (P.S.I.) 6400#	DEPTH 8443'
PORT OPENING INSIDE	BOTTOM HOLE TEMPERATURE 150	FIELD REPORT NUMBER 42737 ^{°E}

DESCRIPTION	LABELED POINTS	PRESSURE (PSIA)	GIVEN TIME	COMPUTED TIME
INITIAL HYDROSTATIC MUD				
INITIAL FLOW (1)	1	110.18		
INITIAL FLOW (2)	2	93.45		
INITIAL SHUT-IN	3	506.14		
SECOND FLOW (1)				
SECOND FLOW (2)				
SECOND SHUT-IN				
FINAL FLOW (1)	4	103.55		
FINAL FLOW (2)	7	114.92		
FINAL SHUT-IN	8	496.35		
FINAL HYDROSTATIC MUD				

REMARKS: CYCLED TOOL 5 123.45
 RE-OPENED TOOL 6 111.13

CLOCK SLIPPED INTERMITTENTLY BEFORE AND AFTER TEST.



JOHNSTON-MACCO

Schlumberger

technical
report

FIELD REPORT NO.: 42736 E

SUMMARY

FEBRUARY 23, 1982

GENTLEMEN:

ENCLOSED ARE THE RESULTS OF THE M.F.E. OPEN HOLE DRILL STEM TEST #1 ON MOAB FEDERAL #16-9, TESTED 2-12-82. THE TEST WAS UNSUCCESSFUL DUE TO PACKER SEAT FAILURE.

HOLE DATA: THE WELL HAD BEEN DRILLED TO A TOTAL DEPTH OF 8549 FT., AND THE TESTED INTERVAL WAS 8496 FT. TO 8549 FT. THE BOTTOMHOLE TEMPERATURE RECORDED AT 8502 FT. WAS 132°F.

FORMATION DATA: THE FORMATION TESTED WAS THE CANE CREEK, WITH A GIVEN POROSITY OF 15%, AND 10 FT. THICKNESS.

SAMPLE CHAMBER CONTENTS: THE SAMPLER PRESSURE WAS 975 P.S.I.; THE CHAMBER CONTAINED 0.01 CU.FT. GAS, AND 2350 C.C. MUD.

RECOVERY DATA: RECOVERED WERE 1180 FT. OF GAS CUT DRILLING MUD.

CHANDLER & ASSOCIATES, INC.
MOAB FEDERAL #16-9; GRAND COUNTY
UTAH; SEC. 9 T25S R20E

FIELD REPORT NO.: 42736 E

In making any interpretation, our employees will give Customer the benefit of their best judgment as to the correct interpretation. Nevertheless, since all interpretations are opinions based on inferences from electrical, mechanical or other measurements, we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not be liable or responsible, except in the case of gross or wilful negligence on our part, for any loss, costs, damages or expenses incurred or sustained by Customer resulting from any interpretation made by any of our agents or employees.

* TEST TICKET DATA PRINTOUT *

WELL IDENTIFICATION

1. WELL	: MOAB FEDERAL #16-9
2. COMPANY	: CHANDLER & ASSOCIATES, INC.
3.	: 1401 DENVER CLUB BUILDING
4.	: DENVER, COLORADO 80202
5. CUSTOMER	: SAME
6.	:
7.	:
8. FIELD	: WILDCAT
9. COUNTY	: GRAND
10. STATE/PROV.	: UTAH
11. LOCATION	: SEC. 9, T25S R20E
12. TECHNICIAN	: TORGENSON (VERNAL)
13. TEST APPROVED BY	: MR. BOB LAFFERTY
14. TEST DATE	: 02-12-82
15. DEPTH REFERENCE	: KELLY BUSHING
16. DEPTH REFERENCE ELEVATION	: S.L. 5005. FT

HOLE INFORMATION

1. THE HOLE IS STRAIGHT.	
2. TOTAL DEPTH	: 8549. FT
3. OPEN HOLE DIAMETER	: 7.75 IN

MUD INFORMATION

1. MUD TYPE	: SALT SATURATED
2. MUD WEIGHT	: 10.8 LB/GAL
3. MUD VISCOSITY	: 40 - 42 MARSH FUNNEL SEC
4. CORRECTED WATER LOSS	: 8 - 10 CC/30 MIN
5. MUD RESISTIVITY	: 0.05 OHM-M
6. MUD RES. MEAS. TEMP.	: 62.0 DEG F
7. MUD FILTRATE RESISTIVITY	: 0.05 OHM-M
8. MUD FILT. RES. MEAS. TEMP.	: 64.0 DEG F
9. MUD CHLORIDES CONTENT	: 181000.0 PPM BY WEIGHT

FIELD REPORT NO. 42736E

 * TEST TICKET DATA PRINTOUT *

TEST INFORMATION

1. FIELD REPORT NUMBER : 42736E
 2. TEST TYPE : M.F.E. OPEN HOLE
 3. TEST NUMBER : 1
 4. TELEFLOW IN USE ? : NO
 5. SSDR OR J-300 IN USE ? : NO
 6. SPRO IN USE ? : NO
 7. PTSDL IN USE ? : NO

TEST STRING INFORMATION

#	COMPONENT NAME	EFFECTIVE		FLOW PATH LENGTH (FT)
		I.D. (IN)	O.D. (IN)	
1	DRILL PIPE	3.80	4.50	7666.
2	DRILL COLLARS	2.25	6.25	787.
3	TEST TOOL STRING	0.93	5.00	96.

TEST STRING PLACEMENT

1. TEST TYPE CODE 1 - ON BOTTOM
 2. PACKER DEPTHS : 8491. FT & 8496. FT

TEST ZONE DESCRIPTION

FORMATION NAME	TOP (FT)	BOTTOM (FT)	PRODUCTION ZONE	
			THICKNESS (FT)	POROSITY (%)
CANE CREEK			10.	15.

TEST CONDITIONS

1. BOTTOMHOLE CHOKE(S) EFF. INTERNAL DIA. : 0.93 IN

FIELD REPORT NO. 42736E

 * TEST TICKET DATA PRINTOUT *

TEST TOOL SAMPLE CHAMBER RECOVERY DATA

SAMPLE PRESSURE : 975. PSIG
 OIL GRAVITY : DEG. API @ DEG F
 GAS/OIL RATIO : FT3/BBL
 GAS/LIQUID RATIO : FT3/BBL

SAMPLE CHAMBER CONTENTS

FLUID	VOLUME	RESISTIVITY	CHLORIDES
GAS	0.01 FT3		
OIL	CC		
WATER	CC	OHM-M @ DEG F	PPM
MUD	2350.0 CC	0.05 OHM-M @ 64.0 DEG F	180000 PPM
TOTAL LIQUID	2350.0 CC		

RECOVERY INFORMATION

DESCRIPTION	FEET	% OIL H2O OTH			API DEG. DEG.F		RESISTIVITY OHM-M DEG.F		CHL PPM
		%	%	%	DEG.	DEG.F	OHM-M	DEG.F	PPM
1 GAS CUT DRILLING MUD	1180						0.05	64	180000.

SURFACE INFORMATION

DESCRIPTION	TIME	PRESSURE	CHOKE SIZE
1 SET PACKER	0728	-	-
2 OPENED TOOL	0731	2.00 OZ	-
3 LOST PACKER SEAT	0734	-	-

REMARKS: UNSUCCESSFUL TEST;
 PACKER SEAT FAILURE.

BOTTOM HOLE PRESSURE AND TIME DATA

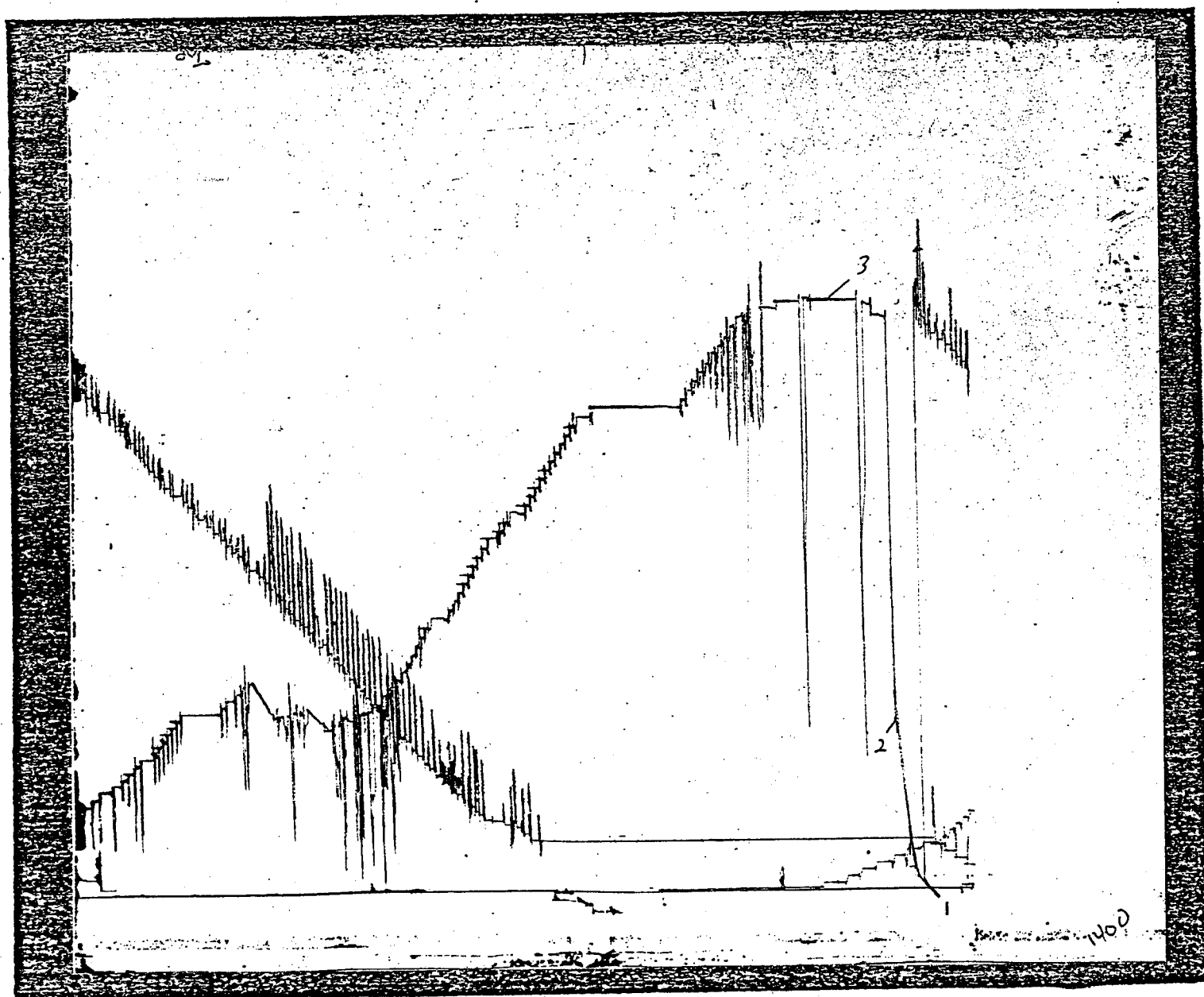


INSTRUMENT NUMBER J-1400		CAPACITY (P.S.I.) 6400#	DEPTH 8465'
PORT OPENING OUTSIDE		BOTTOM HOLE TEMPERATURE 132°F.	FIELD REPORT NUMBER 42736 E

DESCRIPTION	LABELED POINTS	PRESSURE (PSIA)	GIVEN TIME	COMPUTED TIME
INITIAL HYDROSTATIC MUD				
INITIAL FLOW (1)	1	95.26		
INITIAL FLOW (2)	2	1406.84	3	
INITIAL SHUT-IN				
SECOND FLOW (1)				
SECOND FLOW (2)				
SECOND SHUT-IN				
FINAL FLOW (1)				
FINAL FLOW (2)				
FINAL SHUT-IN				
FINAL HYDROSTATIC MUD	3	4840.78		

REMARKS:

UNSUCCESSFUL TEST; PACKER SEAT FAILURE
CLOCK STOPPED TEMPORARILY BEFORE BEGINNING TEST.



BOTTOM HOLE PRESSURE AND TIME DATA

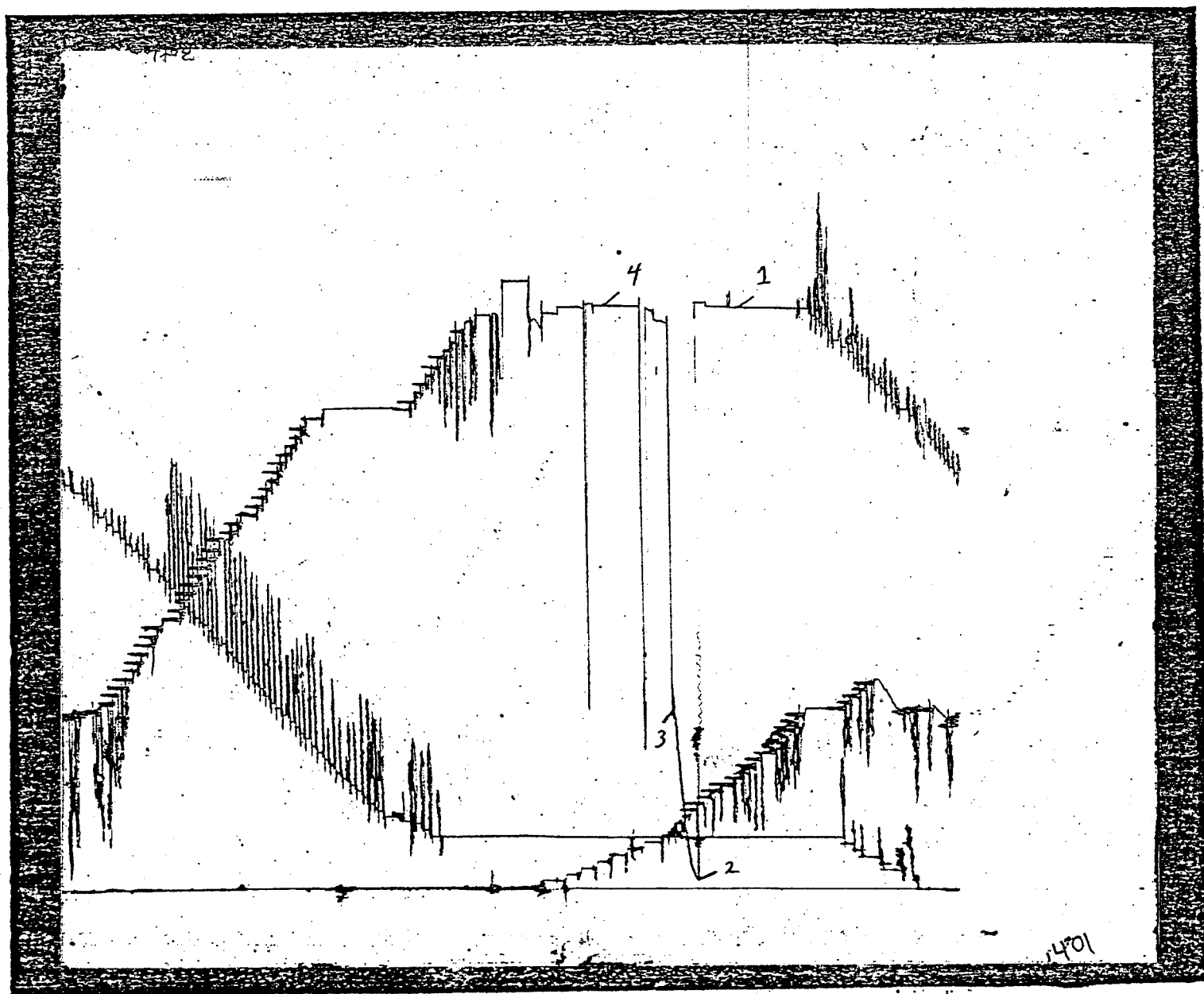


INSTRUMENT NUMBER J-1401		CAPACITY (P.S.I.) 6400#	DEPTH .8502'
PORT OPENING INSIDE		BOTTOM HOLE TEMPERATURE 132°F.	FIELD REPORT NUMBER 42736 E

DESCRIPTION	LABELED POINTS	PRESSURE (PSIA)	GIVEN TIME	COMPUTED TIME
INITIAL HYDROSTATIC MUD	1	4857.47		
INITIAL FLOW (1)	2	106.98		
INITIAL FLOW (2)	3	1568.20	3	
INITIAL SHUT-IN				
SECOND FLOW (1)				
SECOND FLOW (2)				
SECOND SHUT-IN				
FINAL FLOW (1)				
FINAL FLOW (2)				
FINAL SHUT-IN				
FINAL HYDROSTATIC MUD	4	4873.48		

REMARKS:

UNSUCCESSFUL TEST; PACKER SEAT FAILURE



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☒ gas well ☐ other ☐
2. NAME OF OPERATOR
Chandler & Associates, Inc.
3. ADDRESS OF OPERATOR
1401 Denver Club Bldg, Denver, Colorado 80202
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 388' FSL; 547' FEL (SE SE)
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH: 9,968'

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:
TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☒
(other)

SUBSEQUENT TEST TO

RECEIVED
MAR 09 1982DIVISION OF
OIL, GAS & MINING

5. LEASE
USA U-24550
6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Moab Federal
9. WELL NO.
16-9
10. FIELD OR WILDCAT NAME
Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 9-25S-20E
12. COUNTY OR PARISH
Grand
13. STATE
Utah
14. API NO.
43-019-30910
15. ELEVATIONS (SHOW DF, KDB, AND WD)
4996' GR

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Spud well at 5:30 AM January 11, 1982. Set 12 jts 13 3/8" 54.5# K-55 ST&C surf csg at 512' KB w/400 sx cmt. Plug down at 2:00 PM 1-14-82. Set 109 jts 9 5/8" 36# J-55 ST&C intermediate csg at 4450' w/600 sx cmt on 1-27-82. Attempted to run DST #1 from 8496-8549; had a misrun. Ran DST #2 from 8473-8574' on 2-14-82. Rec. 150' mud, slightly O&GC. Sampler: 1800 cc mud, slightly O&GC. Attempted to run DST #3 from 9795-9845', had misrun. Ran DST #4 from 9795-9845 on 2-26-82. Rec 1530' WCM, 280' black sulfur water, VSGC. No gas to surface, no oil. Sampler: 2400 cc water. Ran FDC-CNL-GR, BHC-Sonic-GR, DILL-SP & Dipmeter on 2-23-82. Mud logger on location from 1000' to TD. After evaluation of logs and samples, it was determined to plug the well as follows: Plug #1 9550-9350 107 sx; 7200-6900 133 sx; 4550-4350 120 sx; 1470-1270' 113 sx; 600-400' 152 sx; Surface 15 sx. Mud laden fluid will be used between plugs.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED James W. Rowland TITLE Petroleum Engineer DATE 3-5-82

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

Other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

16

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

5. LEASE DESIGNATION AND SERIAL NO.

USA U-24550

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Moab Federal

9. WELL NO.

16-9

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY
OR AREA

Sec. 9-T25S-R20E

12. COUNTY OR
PARISH

Grand

13. STATE

Utah

18. ELEVATIONS (DF, REB, BT, GR, ETC.)*

4996' GR

ROTARY TOOLS

A11

CABLE TOOLS

--

25. WAS DIRECTIONAL
SURVEY MADE

no

27. WAS WELL CORED

no

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒ Other ☐

b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other ☐

2. NAME OF OPERATOR
CHANDLER & ASSOCIATES, INC.

3. ADDRESS OF OPERATOR
1401 Denver Club Building, Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)
At surface 388' FSL, 547' FEL (SE SE)
At top prod. interval reported below --
At total depth same

14. PERMIT NO. DATE ISSUED

43-019-30910 API # 1-19-82

15. DATE SPUDDED 1-11-82

16. DATE T.D. REACHED 2-22-82

17. DATE COMPL. (Ready to prod.) Plugged 2-28-82

20. TOTAL DEPTH, MD & TVD

9968' drlr

21. PLUG, BACK T.D., MD & TVD

--

22. IF MULTIPLE COMPL.,
HOW MANY*

--

23. INTERVALS
DRILLED BY

--

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

Plugged and abandoned.

26. TYPE ELECTRIC AND OTHER LOGS RUN

FDC-CNL-GR, BHC, Sonic-GR, BILL-SP, Dipmeter

28.

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	54.5#	512'	17-1/2"	400 sks	--

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

n/a

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
n/a	

33.*

PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)					WELL STATUS (Producing or shut-in)	
--		--					Plugged	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO	
--	--	--	→	--	--	--	--	
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)		
--	--	→	--	--	--	--		
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)								

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

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35. LIST OF ATTACHMENTS

Logs and geologic report to follow from subcontractors.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

W.P. Marx
Pat Marx

TITLE Senior Engineer

DATE 3-10-82

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES		38. GEOLOGIC MARKERS	
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Salt	4496		DST #1 8496-8549 Cane Creek
Cane Creek	8474		Opened w/ 2" blow, then lost pkr seat.
Pinkerton Trail	9454		Rec. 1180' fl, slt GCM.
Leadville	9611		Sample Chamber: 2350 cc slt GCM
Ouray	9802		DST #2 8473-8574 Cane Creek
T.D.	9966		IF 15", ISI 60", FSI 60", FSI 120"
			Rec. 150' M, slt O&GC.
			Sample chamber: 1800 cc M, slt O&GC.
			IHP 4789 FHP 4789
			IFP 77-89 FFP 77-102
			ISIP 498 FSIP 485
			DST #3 9795-9845 - misrun
			DST #4 9795-9845 Ouray
			IF 15", ISI 60" FF 60", FSI 120"
			Rec. 1530' WCM, 280' black sulfur wtr
			Sample Chamber: 2400 cc water.
			IHP 5538 FHP 5575
			IFP 68-259 FFP 632-88
			ISIP 608 FSIP 3720